



SOUNDADVISOR™



(W)

SYSTEMS FOR RESEARCH & DEVELOPMENT



SOUNDADVISORTM MODEL 831C SOUND LEVEL METER

The Model 831C SoundAdvisor is designed to make noise measurement easy. Due to its color display, connectivity, extensive software features, and small form factor the SoundAdvisor is an ideal choice for handheld operation. Attended measurements are simplified, with the ability to control and monitor data via any PC or mobile device with a standard web interface. Designed with the acoustic professional in mind, the SoundAdvisor offers an elegant solution for complex needs in an easy-to-use system.



Applications

- Environmental noise assessment
- Noise reduction validation
- Product quality control
- Spectral noise analysis
- In-situ sound power measurements
- Code enforcement

Measurements Simplified

- Connectivity Is Key Cellular, WiFi, and wired networking are all available to you when using the SoundAdvisor. The meter can even serve as its own WiFi hotspot.
- Many Platforms, Same Controls Whether you are setting up a test on the meter, checking in remotely from your laptop, or receiving an alert to your smartphone, you'll be working with the same interface and menus across all platforms.
- Customizable for Your Application From complete outdoor monitoring kits to a low noise option to automatic event detection, the SoundAdvisor is designed to help meet your testing needs.
- LCD Color Interface A full-color user interface allows you to interpret data more easily, right from the meter.

Technically Optimized

As with any device from Larson Davis, a thoughtful design process ensures that your needs are met, from international standards to functionality.

- IEC 61672-1:2013, ANSI S1.4-2014 Class 1 integrating sound level meter
- Real-time frequency analysis in 1/1 and 1/3 octave bands, compliant with IEC 61260:2014 and ANSI S1.11-2014 Class 1
- >120 dB dynamic range
- 2 GB internal memory, expandable by USB
- Full range AC output
- Available low noise option (831C-LOWN)









SOUNDADVISOR™ KIT MODEL NMS044 NOISE MONITORING SYSTEM

Larson Davis has created a new standard for portable noise monitors by making the Model NMS044 SoundAdvisor Kit completely wireless with solar charging and 4G wireless while keeping it truly portable. The SoundAdvisor Kit includes everything needed for a noise monitor that can run indefinitely while remaining connected to the Internet, making your meter and your data always readily available.

Applications

- Remote noise monitoring
- Environmental noise compliance
- Airport noise management
- Continuous and Event sound recordings
- Networked noise level display

Remote Access to Data

- **Network Access 24/7 –** Login from your computer, your smartphone, or other mobile device to engage directly with the meter at your remote location. Make updates, receive alerts, change test parameters, check microphone calibration, and download data with ease.
- Complete Power Solutions With a low power requirement (831C ~1.2 W / 831C + Cellular gateway ~3.5 W) options are available to power the remote unit via solar power, keeping your measurements running indefinitely and sustainably.
- **Real-Time Alerts -** Receive email or texts with data and sound recordings when set noise limits are exceeded. Allows guick response to compliance concerns and listening to sounds for source identification.
- Own Your Data Control your data without monthly access and maintenance costs.

Available Kit Configurations

Configuration	BAT019	BAT020	SLP001	SLP002
NMS044-LFP60	1		✓	
NMS044-LFP100	1			✓
NMS044-SLA60		1	1	
NMS044-SLA100		1		1



Powering the SoundAdvisor Kit

The SoundAdvisor Kit is offered with a choice of a traditional lead acid (SLA) battery or a Lithium Iron Phosphate (LiFePo) battery. LiFePo batteries deliver a significant improvement over Lithium ion technology, offering extended life of over 2500 recharge cycles and safer automation. The LiFePo battery provides high capacity at half the weight of a comparable SLA battery with a longer life and great low temperature performance.

To accommodate use in both common and harsh solar conditions, the SoundAdvisor Kit can be configured with one of two different portable solar panels.

Power Configurations

Model	Description	Capacity	Weight	Use
BAT019	LiFePo Battery	45 Ah	12.8 lb (5.8 kg)	~2500 charge cycles
BAT020	Lead-acid Battery	35 Ah	24.7 lb (11.2 kg)	3 – 5 years
SLP001	Solar Panel	60 W	20 lb (9 kg)	insolation > 2 kW•h/m²/day
SLP002	Solar Panel	100 W	24 lb (11 kg)	insolation > 1 kW•h/m²/day





SOLVING YOUR CHALLENGES

The Larson Davis SoundAdvisor Sound Level Meter is extremely versatile, performing the functions of several instruments. It puts the combined features of a precision Class 1 sound level meter, environmental noise analyzer, and a real-time frequency analyzer in the palm of your hand or on a network. It expands upon the Larson Davis tradition of delivering value, innovation, and function in a rugged, single-handed, expandable package and is backed by a 2-year factory warranty, 24-hour application support, total customer satisfaction, and accredited factory service/calibration.

Solutions with Your Meter

- Easy Setup and Data Download SoundAdvisor offers setup directly
 on the meter's keypad, touchscreen, or via web interface, plus streamlined
 export of data to Excel®.
- ANY LEVEL[™] Never miss a key sound metric with the ability to view and store multiple time weightings (Slow, Fast, and Impulse) and frequency weightings (A, C, and Z) simultaneously.
- Flexibility for Integration Designed to allow integration into a larger or customized solution, SoundAdvisor allows connection of accessories, internal clock for accurate data synchronization, and local language compatibility.

Solutions with Your Outdoor Kit

- Data on Demand Access the meter from any location to make modifications to the setup, view current noise levels, and modify alerts.
- Instant Alerts Receive immediate notification of noise events and use the recorded sound files to evaluate the cause.
- Long Term Remote Power Lithium Iron Phosphate batteries paired with a solar panel offer a continuous, sustainable means to keep your measurements running.
- Avoid Trips To the Field With access to measurements, event alerts, and continuous power, you can spend time in the office, rather than travelling to reach remote locations.

Connectivity

- Cellular, WiFi, or Wired Networking Select your network
 by choosing what to plug into the USB port. You can choose
 cellular by using a Sierra Wireless gateway for mobile or permanent
 applications, WiFi for close proximity wireless, and wired (Ethernet)
 for permanent locations. A USB hub can be used to support
 multiple USB devices.
- Expandable USB Memory Easily expand the 831C memory by adding a USB memory stick. Data is written directly to the USB memory so it's always available and the data is protected if the USB memory is accidentally removed.











Cellular

WiFi

Ethernet

USB





USING THE SOUNDADVISOR

Standard Features

- Web Interface Control the SoundAdvisor and view data from any device that runs a web browser.
- NTP Time Sync and GPS Network Time Protocol automatically selects the most accurate clock from several sources and synchronizes the meter for accurate measurement times.
- External Batteries Power directly from 12 V batteries for efficient power usage and long run times.
- **Built-In Power Management** Safely power the meter off based upon battery voltage. Compatible with solar systems.
- **ANY LEVEL™** Measure levels simultaneously.
- Run Modes Control how and when the SoundAdvisor will operate to best match measurement conditions. Choices include a manual mode; stop after a predetermined period of time; run continuously with automatic calibration check and file save; and defined timers.

Supported PC Software

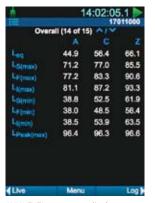
- G4LD Utility [INCLUDED] PC software supplied with the SoundAdvisor
 that supports full sound level meter control, in-the-field firmware and
 option upgrades, data export to spreadsheet, and includes a remote display
 to view the 831C screen on a PC.
- DNA [OPTIONAL] The analysis, post-processing, and reporting tool
 for sound and vibration measurements. DNA delivers enhanced analysis
 capability, sound playback, and graphical reporting. Graphs can be
 annotated and shared amongst multiple users working with DNA reader
 software.
- Software Development Kit (SDK) [OPTIONAL] Toolkit for developing custom applications in Microsoft Windows® or Linux® for the Model 831C.

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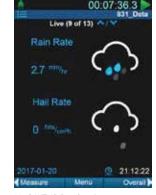
Common Firmware Options

When performing noise surveys, it is important to have a fully capable sound level meter at your fingertips to capture all of the essential data. Have you ever lost your measurement notes, or worse, forgotten to log the information properly and then had to either go back and reacquire the data altogether or simply not report it? SoundAdvisor is available with a variety of firmware options to help you achieve your testing goals the first time.

- Octave Band Analysis 831C-OB3 Simultaneous real-time measurement of 1/1 and 1/3 octave Leq, Lmax, Lmin along with broadband parameters.
- Logging 831C-LOG Select Time History logging periods as short as 2.5 ms to a full 24 hours. Additional parameters such as battery condition, microphone performance, and meteorological data (831C-WTHR) can be recorded.
- Event Detection and Measurement History 831C-ELA –
 Define an Event in terms of threshold level, duration, hysteresis, and
 continuation period.
- Sound Recording 831C-SR Record audio files in a raw or compressed format to determine the source of the noise event.
- Direct USB Support for RV50 Gateway 831C-SW Connect the SoundAdvisor by USB to a wireless gateway to create a highly portable noise monitor.



ANY LEVEL parameter display



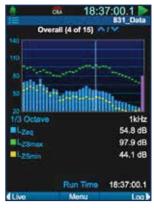
831C-WTHR Datalogging

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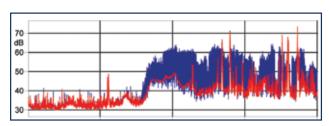
SYSTEMS FOR RESEARCH & DEVELOPMENT



1/1 Octave Display



1/3 Octave Display



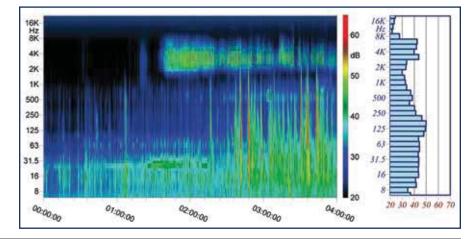
Events Extracted from Noisy Data (taken from DNA software, not in base product)

SOUNDADVISOR OPTIONSOctave Band Analysis (831C-OB3)

In many applications, it is important to acquire both the broadband level and spectral content of noise data. With spectral information, the source and content of the measured level can be better understood. Constant percentage bandwidth filters (1/1 or 1/3 octave) best approximate human perception of sound.

Option 831C-OB3 firmware enables simultaneous real-time measurement of 1/1 and 1/3 octave Leq, Lmax, Lmin along with all the ANY LEVEL broadband parameters. Option 831C-OB3 is compliant with IEC 61260:2014 Class 1 and ANSI S1.11-2014 Class 1 standards covering the entire frequency range of human hearing: 6.3 Hz to 20 kHz for 1/3 octave bands.

When 831C-OB3 is combined with Time History Logging (831C-LOG) or Automatic Event Detection and Event History (831C-ELA), it is possible to review the frequency content of logged data or specific events.



Spectrogram of Events with High Frequency Noise

(taken from DNA software, not in base product)





DNA Software Time History and Hourly Interval Graph with Color Spectrogram

Filters (Selected Frequency and Time Weighting)

Parameter	1/1	1/3
L _{eq}	1	1
L _{max}	1	1
L _{min}	1	1
L _{SPL}	1	1

Logging (831C-LOG)

The Model 831C can be used to record the evolution of sound pressure level over time as a Time History (TH). The Time History is then used to profile the observation period, which can vary from several seconds to continuous monitoring.

With the addition of Time History Logging Firmware (831C-LOG), users can pre-select from logging periods as small as 20 ms to a full 24 hours. Parameter selections consist of familiar acoustic metrics as well as non-acoustic metrics, such as battery condition, outdoor microphone performance, and meteorological data (831C-WTHR).

Logging Parameters

Parameter	A	С	Z
L _{weq}	1	1	✓
Lwpeak	1	1	✓
L _{wSmax}	1	1	✓
L _{wFmax}	1	1	✓
L _{wlmax}	1	1	✓
L _{wSmin}	1	1	✓
L _{wFmin}	1	1	✓
L _{wlmin}	1	1	1
L _{wS}	1	1	✓
L _{WF}	1	1	✓
L _{Wl}	1	1	1

Otl	her Parameters
L _{Ce}	g ^{- L} Aeg
L _{leq}	- L _{Aeq}
Stat	istics (Ln)
Batt	ery
Tem	perature
Exte	rnal Power
Win	d Speed
Gust	t Direction
Gust	t Speed
Avg	Temp
Мах	Temp
Min	Temp
Avg	Humidity
Мах	Humidity
Min	Humidity

Select to log from the above parameters

Measurement History (831C-ELA)

While Time Histories are typically logged at one sample per second, longerterm averages are often useful to see trends, e.g., 10 minute or hourly averages. 831C-ELA firmware enables Measurement History (MH) and logs these parameters similar to Time History (TH) over a longer interval time. MH and TH can run together simultaneously or independently.

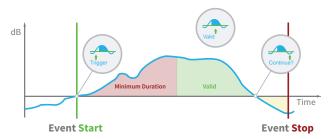
Data for each measurement or location is saved in a unique MH record and may include the Leq, Lmax, Lmin, SPL, and statistical distribution of the SPL (Ln). A complete set of MH records then can be stored in a single measurement that keeps all the noise survey data in a single file. Finally, an automated sound recording at the beginning of each MH period can be achieved with 831C-SR firmware

Data	Parameters			Notes
Averages	Leq	LE		
Sound	Lmax	Lmin	Lpeak	
Occurance Date & Time	Lmax	Lmin	Lpeak	
Temperature	Avg	Max	Min	
Relative Humidity	Avg	Max	Min	
Wind Speed	Avg	Max	Min	
1/3 Octaves	Leq	Lmax	Lmin	w/831C-OB3
1/1 Octaves	Leq	Lmax	Lmin	w/831C-OB3
Date & Time	Date	Time		
Measurement Time	Run Duration	Run Time	Pause Time	
GPS	Lat	Lon	Elevation	w/831-GPS
Other	Exceedance	6 Ln		

Automatic Event Detection and Alerts (831C-ELA)

In the Model 831C, events are defined as one of the following:

- Exceedance of a fixed threshold level for a minimum duration
- Exceedance of a dynamic threshold level for a minimum duration
- External trigger set by the digital input signal



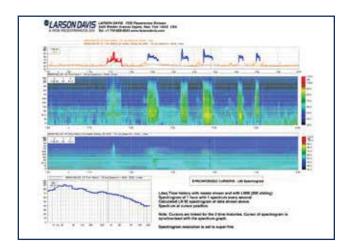
Event Definition on the SoundAdvisor

With 831C-ELA firmware, event definition is defined by you – including threshold level, duration, and event continuation period when the SPL drops below the threshold level for a specific period of time. Triggering status icons identify event progression and qualification (see graph above).

The Model 831C can automatically generate an email alert to provide fast notice of any noise exceedance. The event alerts can be sent to a user configurable list of email addresses or by text message using an email to MMS gateway. Email event sound recording in conjunction with option 831C-SR.

Added Functionality with 831C-ELA Option

With Option	Description
831C-OB3	Frequency analysis of the event
831C-LOG	Record an independent time history of the event including filters when combined with 831C-OB3
831C-SR	Record event audio in .wav or compressed file



DNA Software – TH with embedded .wav files on Event, color spectrogram, L95, and 1/3 octave frequency analysis



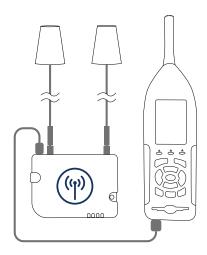
Event Detection Display on the 831C

A dog barking through the night is typically perceived as more annoying than during the day. To minimize false event triggers and capture detection of annoying noise events, an innovative Dynamic Trigger method is available on Model 831C. Dynamic Triggers occur when the background L85, L90, or L95 level is exceeded by a user set number of decibels. A rise rate can also be specified to further track more or fewer events.

Cellular Communication (831C-SW)

We understand how beneficial it can be to have access to your noise monitor at any time of the day. Due to the remoteness or need to setup contracts and get permits, connecting a noise monitor to a wired network or main power just isn't feasible.

With option 831C-SW you can connect the SoundAdvisor by USB directly to a Sierra Wireless gateway and get a highly portable noise monitor that can easily be powered by battery and/or solar. We recommend the Sierra Wireless model RV-50 because of its low power usage and industrial design.



Option 831C-SW

Hear The Sound Being Measured (831C-SR)

Measuring sound levels is a well-accepted way to objectively quantify the noise radiated by a product in an environmental survey. Rather than rely simply on the objective data, why not record a sample of the sound to truly determine the source of the noise?

The 831C-SR option enables the 831C to record audio files in a raw format (.wav) for a lossless recording or with .ogg compression to reduce file size. Audio data can also be streamed from the 831C to allow remote listening to the current sound.

Option 831C-SR Recording Triggers

- Event History Sound Recordings Automatically record the audio for an Event with a user-configured pretrigger record time and recording length. Recording is timesynchronous with the Event.
- Measurement History Sound Recordings Automated sound recording at the beginning of each Measurement History
- Manual Sound Recording User-controlled recording duration, acquired during operation
- Marker-based Sound Recording User-initiated with user-defined duration, acquired during operation
- Logic Input (Button) Recording User-initiated recording with a button push or other logic level input. The 831C will record for a predetermined period of time.

Options for Listening to a Recorded Sound





Connect a USB headset to the 831C and play from the meter







Connect to the meter by G4 and play directly from the meter to the PC









Connect to the meter by G4, download the file and then play the audio on the PC





Connect to the meter using a browser and play the file directly from the meter through the browser









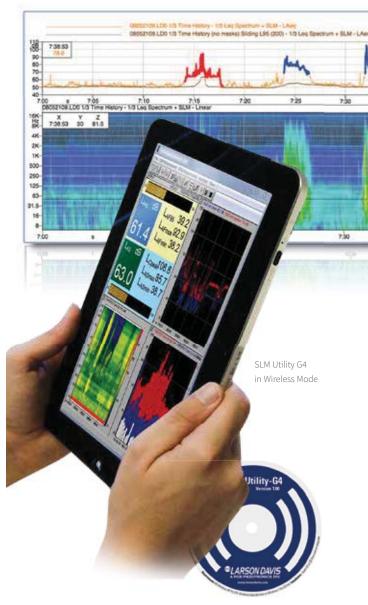
Listen to audio recordings while they are still on the 831C

Size For 1 Minute Recording (kbytes)



Sample Rate	wav	ogg (typical)
48 kHz	5760	960
24 kHz	2880	480
16 kHz	1920	320
8 kHz	960	160





Software Development Kit (831C-SDK)

Build your own software or integrate the SoundAdvisor into your existing application using our Software Development Kit (SDK).

The Software Development Kit for the Model 831C interfaces smoothly and directly with Microsoft® or Linux® programming environments supporting Excel®, HTML5, Javascript, Visual C++, or C# programming languages. The SDK provides functionality to connect and fully control the Model 831C over USB, network, or wireless gateway (modem) connections. File download is supported and the SDK includes documentation and software for extracting data from files. With JSON (JavaScript Object Notification), the SDK makes it easy to create modern, webbased applications with minimal effort.

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SOFTWARE SOLUTIONS

The Model 831C has numerous on-board capabilities, yet often further processing, visualization, or reporting needs exist. For this purpose the Model 831C can be used as a portable instrument and retrieve the data, work as a data acquisition front-end, or in combination with other products.

G4 LD Utility

7:35

The G4 LD Utility program is easy-to-use Windows® software for the Model 831C providing configuration set-up, data download, and remote access. Measurement set-ups can be stored on the PC for use on one or more Model 831C Sound Level Meters. Data can be downloaded onto a PC and easily exported to Excel® for further analysis. G4 LD Utility can simultaneously access multiple 831C-based noise monitoring stations via USB or Ethernet, which makes managing multiple noise monitors simple and convenient. A convenient Live View emulates the SLM screen on your PC, ideal for quick presentations or training.

Data Navigation and Analysis Software (SWW-DNA)

Data Navigation and Analysis Software (SWW-DNA) is designed to analyze and report environmental noise, worker exposure, and architectural acoustic measurements with an interactive graphical interface. With many sound studies being similar in nature, a drag-and-drop feature places new data in an existing layout that allows for quick, professional-looking reports. DNA can either retrieve existing files from Model 831C, or can drive the 831C as a data acquisition front-end.

- Remote network access
- Interactive graphs with data: zoom, overlay Time History and spectrogram with playable event sound recordings, advanced event analysis, mapping, industrial hygiene, and more.
- Template-based operation with customizable options



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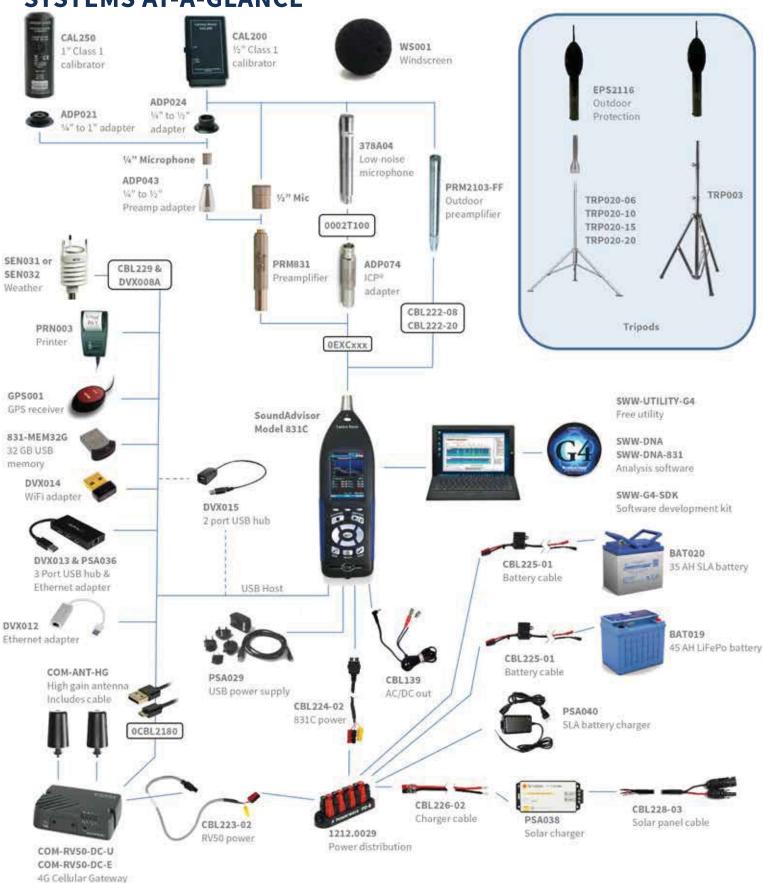
80.0

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Larson Davis



SYSTEMS AT-A-GLANCE





STANDARDS, FEATURES, AND SPECIFICATIONS

Standards Met by Model 831C		
The Model 831C meets the specifications of t	he following st	andards:
Sound Level Meter Standards	Ü	
IEC61672-1 Ed. 2.0 (2013) Class 1, Group X		
IEC60651 Ed 1.2 (2001) plus Amendment 1 (1993-02)	and Amendmen	t 2 (2000-10) Type 1, Group X
IEC60804 (2000-10) Type 1, Group X		, , , , , , , , , , , , , , , , , , ,
ANSI S1.4-2014 Class 1		
ANSI S1.43-1997 Type 1		
DIN 45657		
Octave Filter Standards (Option 831C- OB3)		
IEC61260 Ed. 2.0 (2014) Class 1, all filters		
ANSI S1.11-2014 Class 1, all filters		
Safety Requirements for Electrical Equipme	ent for Measur	ement, Control,
and Laboratory Use		
2014/35/EU Low Voltage Safety Directive		
IEC 61010-1 Ed. 3.0 (2010-06)		
2011/65/EU RoHS Directive		
EMC Immunity and Emission		
2014/30/EU EMC Directive		
IEC 61326-1 Ed. 2.0 (2012-07)		
IEC 61672-1 Ed. 2.0 (2013-09)		
FCC Title 47 CRF Part 15, Class B		
Sound Level Meter Specifications		
Averaging (Integration Method)	Linear or Expor	nential
Time Weightings	Slow, Fast,or Ir	npulse
Frequency Weightings	A, C, and Z	
Peak Detector Frequency Weighting	A, C, or Z	
Gain	0 dB or +20 dB	
Sample Rate	51,200 Hz	
Peak Rise Time	30 μs	
Metrics Measured	Leq, Lmax, Lmir LCeq – LAeq	n, Lpeak, Ln (6 values), LDN, LDEN,
Physical Characteristics		
Length with Microphone and Preamplifier	11.35 in	29.0 cm
Length, Instrument Body Only	8.8 in	22.4 cm
Width	2.8 in	7.1 cm
Depth	1.6 in	4.1 cm
Weight with Batteries, No Preamplifer or Microphone	17.3 oz	490 g

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Reference Frequency Reference Frequency Reference Direction O° is perpend Operating Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature A0°F to 176 Humidity S±0.5 dB em Equivalent Microphone Impedance Storage Temperature Location Steps Storage Storage Storage Storage Resolution Specifications Levels Storage Temperature A0°F to +156 Resolution Specifications Levels Storage Time Storage Stora	rular to the microphone diaphragm or between -22°F to +122°F (-30°C to 50°C) of (-40°C to 80°C) of (-61°M) with EXCxxx cable
Reference Frequency 1000 Hz Reference Direction 0° is perpend Operating Temperature ≤±0.5 dB en Storage Temperature 40° F to 176 Humidity ≤±0.5 dB en Equivalent Microphone Impedance 12 pF Effect of an Extension Cable None up to 2 Approvals CE, ROHS, W Extended Weather Options -40° F to +156 Resolution Specifications Levels 0.1 dB Elapsed Time 0.1 s Real Time Clock 1s Integration Time Time Averaged Levels and Sound Exposure Levels Minimum 0.1 s Maximum with Daily Autostore Enabled Maximum with Daily Autostore Disabled Ln Statistics Number of Selectable Parameters 6 in xx.xx% fc Distribution Resolution 0.1 dB Spectral Statistics Requires Oct Markers Number of Markers 10 Prenamed Markers 10 Back Erase Back Erase Back Erase Back Erase Time Manual Stop Single Block Manual Stop Single Block Manual Stop Single Block	cular to the microphone diaphragm or between -22°F to +122°F (-30°C to 50°C) f (-40°C to 80°C) r from 30% to 90% relative humidity at 104°F (40°C) oft (61 m) with EXCxxx cable
Reference Direction 0° is perpend Operating Temperature ≤±0.5 dB en Storage Temperature -40°F to 176 Humidity ≤±0.5 dB en Equivalent Microphone Impedance 12 pF Effect of an Extension Cable None up to 2 Approvals CE, ROHS, W Extended Weather Options -40°F to +156 Resolution Specifications Levels 0.1 dB Elapsed Time 0.1 s Real Time Clock 1s Integration Time Time Averaged Levels and Sound Exposure Levels Minimum 0.1 s Maximum with Daily Autostore Enabled Maximum with Daily Autostore Disabled Ln Statistics Number of Selectable Parameters 6 in xx.xx% fc Distribution Resolution 0.1 dB Spectral Statistics Requires Oct Markers Number of Markers 10 Prenamed Markers 10 Back Erase Back Erase Back Erase Back Erase Time 5 or 10 s Measurement Control Modes Manipula Manual Stop Single Block Manual Stop Single Block	r between -22°F to +122°F (-30°C to 50°C) : (-40°C to 80°C) r from 30% to 90% relative humidity at 104°F (40°C) Oft (61 m) with EXCxxx cable EE
Operating Temperature S ± 0.5 dB en Storage Temperature A0 °F to 176 Humidity S ± 0.5 dB enr Equivalent Microphone Impedance I2 pF Effect of an Extension Cable Approvals CE, ROHS, W Extended Weather Options Resolution Specifications Levels Integration Time Time Averaged Levels and Sound Exposure Levels Maximum with Daily Autostore Enabled In Statistics Number of Selectable Parameters Distribution Resolution Spectral Statistics Number of Markers Number of Markers Prenamed Markers Back Erase Back Erase Back Erase Menidity Manual Stop Single Block Manual Stop Single Block Possige Block Mone up to 2 A0 °F to 176 Rone up to 2 CE, ROHS, W CE, CE, ROHS, W CE, CE, ROHS, W CE, CE, ROHS, W CE, CE, ROHS, W CE	r between -22°F to +122°F (-30°C to 50°C) : (-40°C to 80°C) r from 30% to 90% relative humidity at 104°F (40°C) Oft (61 m) with EXCxxx cable EE
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Humidity ≤±0.5 dB err Equivalent Microphone Impedance 12 pF Effect of an Extension Cable None up to 2 Approvals CE, ROHS, W Extended Weather Options -40 °F to +158 Resolution Specifications Levels 0.1 dB Elapsed Time 0.1 s Real Time Clock 1s Integration Time Time Averaged Levels and Sound Exposure Levels Minimum 0.1 s Maximum with Daily Autostore Enabled Unlimited Ln Statistics Number of Selectable Parameters 6 in xx.xx% for Distribution Resolution 0.1 dB Spectral Statistics Requires Oct Markers Number of Markers 10 Prenamed Markers 10 Prenamed Markers 10 Back Erase Back Erase Time 5 or 10 s Measurement Control Modes Manual Stop Single Block Manual Stop Single Block	r from 30% to 90% relative humidity at 104 °F (40 0 ft (61 m) with EXCxxx cable EE
Equivalent Microphone Impedance 12 pF Effect of an Extension Cable None up to 2 Approvals CE, ROHS, W Extended Weather Options -40 °F to +158 Resolution Specifications Levels 0.1 dB Elapsed Time 0.1 s Real Time Clock 1s Integration Time Time Averaged Levels and Sound Exposure Levels Minimum 0.1 s Maximum with Daily Autostore Enabled Unlimited Maximum with Daily Autostore Disabled >23 days with Size Control of the Control of t	Oft (61 m) with EXCxxx cable
Effect of an Extension Cable Approvals CE, ROHS, W Extended Weather Options Resolution Specifications Levels 0.1 dB Elapsed Time 0.1 s Real Time Clock Integration Time Time Averaged Levels and Sound Exposure Levels Minimum 0.1 s Maximum with Daily Autostore Enabled Maximum with Daily Autostore Enabled Ln Statistics Number of Selectable Parameters Distribution Resolution Spectral Statistics Requires Oct Markers Number of Markers 10 Prenamed Markers 10 Prenamed Markers Back Erase Back Erase Back Erase Time Manual Stop Single Block Manual Stop Single Block C. AdB CE, ROHS, W Ft o +158 CH, SH	EE
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Available Modes Manual Stop Single Block	
Available Modes Single Block	Firmed Stop Stop when Stable Continue
	Fimed Stop, Stop when Stable, Continuous, imer, Daily Block Timer
Stop When Stable Delta level in	x.x dB and time in hh:mm:ss
	k, 48, 96 or 144 files per day, automated file /mmddnn.LD0"
	owered by 12 VDC and continuous run mode
Daily Block Timer Up to 3 block	owered by 12 VDC and continuous run mode time to end date and time

< 10 sec in 30 days, at -40 °F to +158 °F (-40 °C to +70 °C)

<1 s when using NTP

ADDITIONAL HARDWARE SPECIFICATIONS AND BROADBAND NOISE LEVELS

General Specifications (Contir	ued)				
Microphone Input					
Connector	Latching 5-pin	connector			
Input Impedance	100 kΩ and 30				
Full Scale Input (0 dB gain)	14 Vpeak				
ICP Current (requires ADP074)	4 mA				
AC/DC Output					
Jack	2.5 mm (3/32 i	n) female			
		eamplifier outp	out)		
AC Output Voltage Range	± 2.1 Vpeak wi	th 0, 20 or 40 dl	3 gain (for LINE ir	nputs)	
AC Output Recommended Load	10 kΩ or great		0 1		
DC Output Voltage Scale	10 mV per dB,	0 V for 0 dB, 1 V	'= 100 dB		
DC Output Frequency & Time Weighting	Follows SLM S	ettings: A, C, or	Z and S, F, or I		
Power Supply					
Batteries		IH, 1.5 V Lithiur 2500 mAh NiM	n or Alkaline cell: H)	S	
External Power (5 V from USB)	USB Mini-B connector to * USB interface from computer * PSA029 AC to DC power adaptor				
External Power	I/O connector: 10 to 25 VDC (Use cable CBL140)				
	> 18 hours (1.5 V Lithium batteries)				
Operating Time (with power save options)	> 8 hours (Alkaline or NiMH batteries)				
	1.1 W (backligh	1.1 W (backlight off, running)			
Power Consumption with PRM831	≤2 W (with DV	X012)			
	5 W (maximun	1)			
Memory Retention					
Data Memory	Non-volatile fl	ash memory, b	ackup performe	d every minut	
Real-time Clock	≥ 1 year with b	atteries remov	ed		
Broadband Noise Levels					
Self-generated Electrical Noise	0 dB	Gain	20 dB	Gain	
Weighting	Typical (dB)	Max (dB)	Typical (dB)	Max (dB)	
A	10	12	6	9	
С	13	16	12	15	
Z	22	25	22	25	
Self-generated Total Noise	0 dB	Gain	20 dB	Gain	
Weighting	Typical (dB)	Max (dB)	Typical (dB)	Max (dB)	
A	16	19	16	17	
С	17	20	16	19	
Z	23	26	23	26	

measured in a sealed and vibration isolated cavity with an averaging time of 60 seconds. Electronic noise of the instrument with an ADP090 (12 pF) in place of the microphone highest anticipated self-generated noise.

Model 831C Preampl	ifier Specification	n (PRM831)		
Frequency response with resp	ect to the response at 1 kl	Hz with 1 Vrms input		
8 Hz to 16 Hz	+0.1 dB, -0.2 dB			
16 Hz to 100 kHz	+0.1 dB, -0.1 dB			
Lower -3 dB limit	< 1.5 Hz			
Attenuation	0.1 dB (typical)			
Input Impedance	10 G Ω / 0.16 pF			
Output Impedance	50 Ω			
Maximum Output	28 Vpp 143 dB peak f	or microphones with 50 mV	//Pa sensitivity	
Maximum Output Current	12 mA peak			
Harmonic Distortion	<-70 dBC with 8 VRM	S output at 1 kHz		
Output Slew Rate	2 V per μs (typical)			
Electronic Noise With 12 pF	1.8 μV typical A-weigl	1.8 μV typical A-weighted (2.4 μV max)		
Equivalent Microphone	4.3 μV typical Flat 20	4.3 μV typical Flat 20 Hz to 20 kHz (5.0 μV max)		
Power Supply Voltage	15 V to 36 V	15 V to 36 V		
DC Output Level	∄/2 power supply vo	ltage		
Power Supply Current	1.9 mA (typical)	1.9 mA (typical)		
Temperature Sensitivity	< ±0.05 dB from -40 °I	< ±0.05 dB from -40 °F to +176 °F (-40 °C to +80 °C)		
Humidity Sensitivity	< ±0.05 dB from 0 to 9	90% RH, non-condensing at	:+122 °F (+50 °C)	
Dimensions (D x L)	0.50 in x 2.88 in (12.7	mm x 73 mm)		
Microphone Thread	11.7 mm - 60 UNS (0.4	4606 in - 60 UNS)		
Maximum Cable Length	200 ft (61 m) for signa	200 ft (61 m) for signals up to 20 kHz		
Output Connector	Switchcraft TA5M (5-	pin male)		
Reference Conditions	All values are at 73 °F	(23 °C), 50% RH, 35 V suppl	y, 10 ft (3 m)	
Model 831C with PRI	M831 and 377B02	Microphone		
		0 dB Gain	20 dB Gain	
	A	17 dB - 140 dB	16 - 120 dB	
Dynamic Range	С	17 dB - 140 dB	17 - 120 dB	
	Z	24 dB - 140 dB	23 - 120 dB	
	Δ	24 dB - 140 dB	20 - 120 dB	

Model 831C with PRM831 and 377B02 Microphone				
		0 dB Gain	20 dB Gain	
Dynamic Range	A	17 dB - 140 dB	16 - 120 dB	
	С	17 dB - 140 dB	17 - 120 dB	
	Z	24 dB - 140 dB	23 - 120 dB	
Measurement Range [1]	A	24 dB - 140 dB	20 - 120 dB	
	С	26 dB - 140 dB	25 - 120 dB	
	Z	36 dB - 140 dB	33 - 120 dB	
Peak Range	А	65 dB - 143 dB	44 - 123 dB	
	С	66 dB - 143 dB	45 - 123 dB	
	Z	68 dB - 143 dB	59 - 123 dB	
Max Level	SPL	140 dB	120 dB	
Max Level	PEAK	143 dB	123 dB	



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[1] As defined in IEC 61672-1. Microphone and electrical self-noise included

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OPTIONS AT-A-GLANCE

pectral Analysis	* 031C OD3\	
Octave Analysis (with Optio		
1/1 Octave Filters	8 Hz to 16 kHz	
1/3 Octave Filters	6.3 Hz to 20 kHz	
Octave filter self-generated noise 1/1 Octave Filters		
1/3 Octave Filters	2.0 dB @ normal range (0.2 dB in low range w/ 20 dB gain) -3.1 dB @ normal range (-4.9 dB in low range w/ 20 dB gain)	
,		
Octave Analysis Parameters		
- Recis	None, 1/1 octave, 1/3 octave, or 1/1 and 1/3 octaves	
Frequency Weighting	A, C, or Z (independent of broadband weighting) Maximum in each band or Spectrum at broadband Lmax	
Maximum Spectrum Spectral Statistics	6 percentiles per filter	
Spectral Statistics	Time History (see 831C-LOG)	
Octave Band Logging Capability	Measurement History (see 831C-ELA) Event History (see 831C-ELA)	
Normalized Spectrum		
View Modes	SPL, Leq, Lmax, or Lmin; absolute or relative	
Predefined Curves	A, C, -A, -C	
User-Defined Curves	Four named for 1/1 octave and four for 1/3 octaves bands	
Profiling with Time Hist Event History	ory Logging, Measurement History, and	
Time History Logging (with	option 831C-LOG)	
Record Period	Selections from 2.5 ms to 24 hr	
	Any combination of available broadband and spectral	
Logging Parameters	AnyData plus non sound metrics	
Measurement History Loggi	ng (with option 831C-ELA)	
Interval	1 min to 99 hr	
Logging Parameters	Same as Overall Measurements	
	Ln Statistics + Spectral Ln (if OB1 or OB3 enabled)	
Sound Record Tagging	At start of each interval (required to enable SR)	
Event History Logging (with		
Logging Period	20 ms to 5 s (independent of TH or MH) Leq, Lmax, Lpeak, Date and Time, Duration, Exposure in dB and Pa2s	
Logging Parameters	Leq, Lmax, Lpeak, Date and Time, Duration, Exposure in dB and Pai and available spectral Leq and maximum. Event Time History is also available with broadband and spectral levels.	
Sound Record Tagging	Required to enable SR at 8 ksps or 16 ksps	
SEL	Yes (LAE)	
Sound Recording (831-SR)		
Data Format	Mono wave file (.wav) or compressed (.ogg)	
Listening Options	On Model 831 using USB headset with Utility program, DNA, or using	
	standard wave file player	
Sample Rate	8, 16, 24, ,48, or 51.2 ksps	
Storage Requirement	1 MB/min at 8 ksps to 6 MB/min at 48 ksps for .wav file Manual, coupled to marker, at measurement interval start, upon	
Sound Recording Modes	event	
Pretrigger	Variable depending upon sample rate; up to 60 s	
Duration	Max 9999 s	
Sound Streaming	Streaming to host	
Weather (Meteorologic	al Parameters)	
Combined Meteorological U		
Measuremed Parameters	Wind speed and direction, temperature, relative humidity, rain, and hail	
Communication	USB using DVX008A	
Sensor Model	SEN031 (requires CBL167 & DVX008A)	
Sensor Noise Level	30 dB A-weighted at 2 ft (61 cm)	
Ultrasonic Anemometer – W	ind Sensor (with sensor SEN032)	
Measured Parameters	Wind speed and direction	
Communication	USB using DVX008A	
Sensor Model	SEN032 (requires CBL167 & DVX008A)	
	30 dB A-weighted at 2 ft (61 cm)	
Sensor Noise Level		
	ns	
Communication Option		
Communication Option Direct USB to Sierra Wireles	s (831C-SW)	
Communication Option		



Model 831C SoundAdvisor™

ORDERING INFORMATION

Model				
Number	Description			
Sound Level Met	Sound Level Meter			
831C-FF	SoundAdvisor Model 831C sound level meter with Class-1 free-field, pre-polarized precision condenser microphone (50 mV/pa), preamplifier (PRM831), accessory kit (831C-ACC)			
831C-FF-KIT1	831C-FF with DVX012 and firmware options 831C-LOG, 831C-OB3, 831C-ELA & 831C-SR			
831C-FF-KIT2	SoundAdvisor Model 831C-FF with firmware options 831C-LOG & 831C-OB3			
831C-RI	SoundAdvisor Model 831C sound level meter with Class-1 random-incidence pre-polarized condenser microphone (50 mV/Pa), preamplifier (PRM831), accessory kit (831C-ACC)			
XXIC-RI-KIII	SoundAdvisor Model 831C-RI with DVX012 and firmware options 831C-LOG, 831C-OB3, 831C-ELA & 831C-SR			
	SoundAdvisor Model 831C sound level meter with 378A04 low noise, ICP microphone and preamplifier (450 mV/Pa), accessory kit (831C-ACC) and ICP adapter (ADP074)			
831C-ENV	SoundAdvisor Model 831C class 1 sound level meter base kit for environmental noise. Includes EPS2116, PRM2103-FF, CBL203-20 & PSA032 and firmware options 831C-LOG, 831C-OB3, 831C-ELA, 831C-SR & 831C-SW			
	SoundAdvisor Model 831C sound level meter for environmental and community noise without microphone or preamplifier			
Firmware Option	ns .			
	Upgrade Model 831C sound level meter with logging of time histories with periods from 20 ms to 24 hr			
831C-OB3	Upgrade Model 831C sound level meter with Real-time 1/1 & 1/3 octave filter set			
831C-ELA	Upgrade Model 831C sound level meter with event, interval and daily histories logging			
	Upgrade Model 831C to record compressed and uncompressed audio			
	Upgrade Model 831C to add Measurement History and sound recording			
	Upgrade Model 831C to add direct USB communication with Sierra Wireless RV50 gateway			
Calibration				
CER-831	ISO 17025 compliant calibration and certification of 831C (SLM, preamplifier with microphone) and 831C-RPT			
CER-831-E	Environmental certification Model 831C for [-40,+158] °F ([-40,+70] °C) range. Includes calibration of 831C and PRM831, 831-RPT, environmental test of microphone. Microphone calibration not included.			
CER-MIC	Calibration and certification for microphone			
CER-PRM2103-E	Environmental Certification Model PRM2103 for [-40,+158] °F ([-40,+70] °C) range; (no microphone certification); environmental test of microphone			
CER-426A12	Calibration and certification for 426A12 including environmental testing for temperature vand humidity stability. Replaces windscreen, o-ring, and desiccant cartridges.			
831-RPT	Model 831C Sound Level Meter certification test report. Certificate for SLM, preamplifier, and microphone.			



ORDERING INFORMATION

Model	S. 1.0	
Number	Description	
Accessories		
831C-ACC	Accessory kit for Model 831C sound level meter, which includes case (831-CCS), batteries (4-AA), power supply w/ USB cable (PSA029), WiFi dongle (DVX014), and windscreen (WS001)	
831-CCS	Hard shell case with rugged foam lining	
831-MEM32G	USB memory, 32GB	
ADP074	Adapter to provide ICP® output on BNC connector	
ADP097	Direct input adapter with BNC connector for Model 831C & 831 sound level meters	
BAT015	8 D cell battery holder with fuse; batteries not included	
CBL138	Cable USB A to mini-B 6 ft (1.8 m)	
CBL139	AC/DC output cable with 2.5 mm sub-miniature plug to BNC or RCA DC power cable for Model 831 Sound Level Meter, 10 – 25 VDC includes	
CBL140	lead-acid battery clamps and 12 V car plug	
CBL170	Cable connecting Model 831 to 9-pin D connector (wind speed, direction, logic I/O, 3 slow ADC) and coaxial DC connector (to PSA027)	
DVX008A	USB Adaptor to serial (DB9 connector)	
DVX012	USB to Ethernet adapter	
DVX013	Gigabit Ethernet dongle for 831C with USB-A connector to RJ-45 (CAT5) and includes 3 port USB hub. Hub requires external 5V power, AC adapter included (StarTech model ST3300GU3B) . For DC power use PSA036	
DVX014	WiFi adapter supporting b/g/n for 831C (D-Link DWA-121)	
DVX015	USB self-powered 2 port hub (Cables To Go model #29525) Microphone extension cable, 5 pin Switchcraft, 6 ft (2 m), 10 ft (3 m), 20 ft (6 m),	
EXC006/10/20/50	50 ft (15 m). Additional lengths available	
GPS001 PSA029	USB connected GPS receiver AC Power supply (100-240 VAC to 5 V USB w/mini-B cable, CBL138)	
PSA029	12V to 5V DC power adapter for use with DVX013	
SEN025	Single axis accelerometer, 10 mV/(m/s²) or 100 mV/g ICP®.	
WS001	3.5 inch diameter windscreen for 0.5 inch microphone	
	d Preamplifiers	
377B02	0.5inch free-field, prepolarized condenser microphone, typical sensitivity = 50 mV/Pa, 3.15 Hz to 20 kHz (±2 dB)	
377C20	0.5 inch random incidence, prepolarized condenser microphone 50 mV/Pa, 3.15 Hz to 16 kHz (±2 dB)	
377C10	0.25 inch pressure, prepolarized condenser microphone typical sensitivity = 1.6 mV/Pa, 4 Hz to 70 kHz (±2 dB)	
378A04	ICP® Low noise microphone & preamplifier system, 6.5 dB A-weighted typical noise	
426A12-FF	Permanent outdoor preamplifier & free field microphone with electrostatic actuator, humidity reading, TEDS and supporting externally and pre-polarized microphones	
426A12-RI	Permanent outdoor preamplifier & random incidence microphone with electrostatic actuator, humidity reading, TEDS and supporting externally and pre-polarized microphones	
ADP043	0.25 inch microphone to 0.5 inch preamplifier adaptor	
PRM831	Model 831C Sound Level Meter preamplifier for 0.5 in free-field or random incidence	
	prepolarized microphones Permanent Outdoor Preamplifier with free-field microphone with Remote Calibration	
PRM2103-FF	Permanent Outdoor Preamplifier with tree-field microphone with Remote Calibration Check, hundrid yreading and heater, for pre-polarized microphone. Random or 90 degree response can be selected on the Model 831C.	
Software		
SWW-SLM- UTILG4	G4 LD Utility software for SoundTrack LXT® and Model 831C sound level meter: download, upgrade, translate, print text reports or export to spreadsheet. CD with Quick Start Guide	
SWW-DNA	Basic software and dongle (USB) for evaluation and reporting of data downloaded from the Larson Davis instruments, requires an instrument driver	
SWW-DNA-831	Instrument driver for instrument control, set-up, live display, data translation, and data download for Model 831C & 831 sound level meter	
SWW-DNA-EV	DNA option for Events tracking: PNL and PNLT Event Time History and EPNL Event	
SWW-DNA-BA	DNA software Building Acoustics, allows calculation of transmission loss and sound insulation calculations	
SWW-DNA-	DNA software for monitoring a remote location when using 820, 824, 870,	
REMOTE	or 831C Models. Uses modem connection for communication and data download.	
Calibrators		
CAL200	Class 1 acoustic calibrator with user selectable output of 94 or 114 dB at 1 kHz. 1/2 inch opening (no adaptor)	
CAL250	Class 1 microphone calibrator, output 114 dB at 251.2 Hz. 1 inch opening with 1/2 inch (ADP019) adaptor. 3/8 inch (ADP020) and 1/4 inch (ADP021) adaptors available	

 $^{^2\,\}text{Hazardous}$ materials shipping license required to ship LiFePo battery by common carrier. Battery not allowed on passenger aircraft



Noise Monitoring System Components COM-RV50-DC- E/U Sierra Wireless Model RV50 cellular gateway to add Internet connectivity through cellular network to 831C. Choose /U for US and /E for rest of world. Requires option (831C-SW for direct USB connection). EPS030-831 Case for Model 831C Sound Level Meter including (1) 21 Ah battery, charger (PSA032) internal preamplifier cable (CBL151) and power distribution cable (CBL151) includes CBL168 & CBL168 to power Model 831C with (2)x 21 Ah batteries (BAT011). Includes CBL168 & CBL168 & CBL168 to power Model 831C EPS037-831 Case on wheels (CCS035) to enclose Model 831C with 100 Ah batteries (BAT012). Includes CBL168 & CBL168 to power Model 831C EPS044 Environmental protection for 831C, 631 or 1xT with BAT015 in a CCS002 hard case; includes a cable gland Noise monitor enclosure for 831C including CCS051, CCS052, ACC009, PSA038, CBL224-02, CBL225-02, CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. License required to ship battery. EPS2116 EPS044-LFP EPS2116 ENVironmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desiccants, and universal mounting Combined weather sensor, wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DVX008A) Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems Monopole for use in PS044 and NMS044 systems BAT019 ³ 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT019 ³ CBL222-08 CBL224-02 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-08 CBL224-09 Pow	Model	Description
COM-RV50-DC E/U Sierra Wireless Model RYGO cellular gateway to add Internet connectivity through (Sall C-SW for direct USB connection). BFS030-831 Case for Model 8315 count Level Meter including (1) 21 Ah battery, charger (PS0402) internal preamplifier cable (CBL141), and power distribution cable (CBL151) EFS036-831 Case on wheels (CC5035) to enclose Model 8315 with 1/2 x 21 Ah batteries (BAT011). Includes CBL166 cBL1618 to power Model 8315. EFS037-831 Case on wheels (CC5035) to enclose Model 8315 with 100 Ah batteries (BAT012). Includes CBL166 cBL1618 to power Model 8315. EFS042 Environmental protection for 8315, 831 or LYT with BAT015 in a CC5002 hard case; includes a CBL168 cBL1618 to power Model 8315. EFS044 Noise monitor enclosure for 8315 including CC5031, CC5052, ACC009, PSA038, CBL24-00, CBL226-00; CBL226-		
cellular network to 8312. Choose /b for US and /E for rest of wordt. Requires opion (3312. CSW for direct USB connection) EPS030-831 Case for Model 8312 Csound Level Meter including (1) 21. Ah battery, charger (PS032) EPS036-831 Case on wheels (ICS035) to enclose Model 8312 with (2)x 21. Ah batteries (BAT011). Includes CBL 166. & CBL 168 to power Model 8312 Case on wheels (ICS035) to enclose Model 8312 with 100 Ah batteries (BAT012). Includes CBL 166. & CBL 168 to power Model 8312 EPS047 EPS047 EPS048 EPS049 EPS044. Let Case an wheels (ICS035) to enclose Model 8312 with 100 Ah batteries (BAT012). Includes CBL 166. & CBL 1610 to power Model 8312 EPS044. Solve the Case and the	Noise Monitorin	
EPS030-831 Case for Model Sail Csound Level Meter including (1) 21 Ah battery, changer (PS032) Internal preamptifier cable (CBL141), and power distribution cable (CBL151) Case on wheels (CCS035) to enclose Model 831C with (2)x 21 Ah batteries (BAT011). includes CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT011). includes CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT011). includes CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT011). includes CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT012). The child of CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT011). includes CBL166 & CBL166 to power Model 831C with 100 Ah batteries (BAT012). September 100 Amounts of CS021 Amou		
internal preamplifier cable (CBL141), and power distribution cable (CBL151) FPS036-8.31 Case on wheek (CSC935) to enclose Model 831C with 100 Ah batteries (BAT011). Includes CBL166 & CBL188 to power Model 831C Case on wheek (CSC935) to enclose Model 831C with 100 Ah batteries (BAT012). Includes CBL166 & CBL188 to power Model 831C EPS042 Environmental protection for 831C, 831 or LxT with BAT015 in a CCS002 hard case; includes a cable gland Noise monitor enclosure for 831C including CCS051, CCS052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. Hore provided to ship battery. EPS2116 EPS044-EFP EPS2116 Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desicants, and universal mounting SEN031 Lomitorial protection for 1/2 inch preamplifiers with windscreen, bird spikes, desicants, and universal mounting SEN031 Linstrumentation tripad with AbD923 preamplifier to tripad interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EPS030-831 to external Pc, 2 m USBA-to-B BAT019 ² 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT019 ² 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT019 ² 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT019 ² CBL222-03 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20ft / 6 m) CBL223-04 CAble Complete MS of Sign 34 to Sign 34 th Anderson Powerpole® connectors for 12V power. (20ft / 6 m) CBL226-02 Power cable for Sattor with space connectors to bare wires [2 ft / 0.6 m) C	E/U	(831C-SW for direct USB connection).
Case on wheels (CC5035) to enclose Model 831C with (2)x 21 Ah batteries (BAT011). Includes CBL166 & CBL168 to power Model 831C PFS037-831 Case on wheels (CC5035) to enclose Model 831C with 100 Ah batteries (BAT012). Includes CBL166 & CBL168 to power Model 831C EPS042 Environmental protection for 831C, 831 or txT with BAT015 in a CC5002 hard case; includes a cable gland Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 FPS044-LAP EPS044-LFP EPS044-LFP EPS044-LFP EPS044-LFP EPS044-LFP EPS044-LFP EPS044-LFP Environmental protection for 1/2 inch preemplifiers with windscreen, bird spikes, desicants, and universal mounting Combined weather sensor: wind speed and direction (no moving parts), temperature undivides, pressure, rainfall (requires CBL167 cable + DVX008A) TRP001 Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 81 ft 2.4 m) used in portable NMS systems CBL174 Waterprof Cable connecting EPS03-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT0193 4 SA h12V LFPe-D battery, Weights 1.2 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery Weights 2.4 7 pounds (11.2 kg) CBL222-02 Cable connecting B31C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL222-02 Cable connecting B31C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 CBL226-02 Fower cable for Salter with Spade connectors to solar wires (2 ft / 0.6 m) CBL226-02 Power cable for Salter with Spade connectors to solar and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power cable for Salter with Spade connectors to solar and and carrying case CCS052 Canbia Spade with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power	EPS030-831	
Includes CBL166 & CBL168 to power Model 831C with 100 Ah batteries (BAT012). Includes CBL166 & CBL168 to power Model 831C with 100 Ah batteries (BAT012). Includes CBL166 & CBL168 to power Model 831C with 100 Ah batteries (BAT012). Includes a cable gland		
EPS042 Environmental protection for 831C, 831 or LxT with BAT015 in a CC5002 hard case; includes a cable gland Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CBE2402, CBL225-01, CBL226-02 & CBL226-03 Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL226-03 SA SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CC5051, CC5052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. HIFPO battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. HIFPO battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. HIFPO battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. HIFPO battery, ACC009, PSA038, CBL244-02, CBL225-01, CBL226-02 & CBL228-03. HIFPO battery, ACC009, PSA038, CBL244-02, CBL225-01, CBL226-02 & CBL228-03. HIPPO battery, ACC009 has a part of the part of the protein prote	EPS036-831	Includes CBL166 & CBL168 to power Model 831C
EPS044 Environmental protection for 831C, 831 or LxT with BAT015 in a CC5002 hard case; includes a cable gland Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CB1224-02, CB1225-01, CB1226-02 & CB1228-03 Noise monitor enclosure for 831C including CC5051, CC5052, ACC009, PSA038, CB1224-02, CB1225-01, CB1226-02 & CB1228-03 Noise monitor enclosure for 831C including CC5051, CC5052, BAT020 35 Ah SIA battery, ACC009, PSA038, CB1224-02, CB1225-01, CB1226-02 & CB1228-03 Noise monitor enclosure for 831C including CC5051, CC5052, BAT020 35 Ah SIA battery, ACC009, PSA038, CB1224-02, CB1225-01, CB1226-02 & CB1228-03. License required to ship battery EPS2116 Environmental protection for 1/2 inch preemplifiers with windscreen, bird spikes, desiccants, and universal mounting. SEN031 Combined weather sensor: wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CB1.67 cable + DVX008A) TRP003 Instrumentation tripod with ADD922 preamplifier to tripod interface TRP003 Support tripod, maximum height 8ft (2.4 m) used in portable NMS systems Waterproof cable connecting EPS003 8811 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems ACC009 35 Ah 12Y LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT019 ³ 45 Ah 12Y LiFePo battery. Weighs 12.6 pounds (5.8 kg) BAT020 35 Ah 12Y SLA battery. Weighs 24.7 pounds (11.2 kg) CB1222-08 Cable Connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) CB1222-09 CB222-08 CB222-08 CB1223-02 For a cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft / 6.6 m) CB1223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power. (2 ft / 6.6 m) CB1224-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power. (2 ft / 6.6 m) CB1226-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connec	EPS037-831	
EP5044—SLA Noise monitor enclosure for 831C including CCS051, CCS052, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02, &CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL226-01, CBL226-02, &CBL228-03, EAT020 35 Ah SLA battery, ACC009, PSA038, CBL224-02, CBL226-01, CBL226-02, &CBL228-03, License required to ship battery EP5044-LFP EP5044-LFP EP5044-LFP EP50416 Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desiccants, and universal mounting EP52116 Environmental protection for 1/2 inch preamplifier with windscreen, bird spikes, desiccants, and universal mounting EP5031 Combined weather sensor: wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DW0008A) TRP001 Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8ft [2.4 m) used in portable MMS systems BAT0193 4 SAh 12V LTF6P battery. Weighs 12.8 pounds (S.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (S.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (S.8 kg) BAT020 6BL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) CBL222-09 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft / 6 m) Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power. (2 ft / 6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL225-01 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL226-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (1 ft / 0.5 m) CBL226-02 CBL22	EPS042	Environmental protection for 831C, 831 or LxT with BAT015 in a CCS002 hard case;
EPS044-SLA Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA batery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03 Noise monitor enclosure for 831C including CCS051, CCS052, BAT019 45 Ah LiFePo battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. License required to ship battery EPS2116 Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desiccants, and universal mounting EPS2116 Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desiccants, and universal mounting SEN031 Combined weather sensor: wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DWx008A) TRP001 Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable MMS systems SUB1174 Waterproof cable connecting PES030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NM5044 systems BAT019 ² 45 Ah 12V LiFePo battery, Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery, Weighs 24.7 pounds (1.12 kg) CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power (20 ft / 6 m) Power cable for Siar Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL223-01 CBL224-02 Power cable for Siar wireless with spade connectors and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power cable for Siar and wireless with spade connectors to bare wires (2 ft / 0.6 m) CBL226-03 Cable, Im, with MC-4 connectors for solar and bare wires for use with solar charge controller, 0.4 m with spade connectors to solar and bare wires for use with solar charge controllers. CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount	EPS044	Noise monitor enclosure for 831C including CCS051, CCS052, ACC009, PSA038,
Noise monitor enclosure for 831C including CCS051, CCS052, BAT0194 SA h LiFePo battery, ACC09, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL226-03. License required to ship battery EPS2116 Environmental protection for 1/2 inch preamptifiers with windscreen, bird spikes, desiccants, and universal mounting SEN031 Combined weather sensor: wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DWX0034). TRP001 Instrumentation tripod with ADP032 preamptifier to tripod interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems SUBDAT Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT019³ 45 A1 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (11.2 kg) CBL228-08 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-00 (Cable, USB-A to micro-B, 3 ft (1 m) CBL222-00 (Cable, USB-A to micro-B, 3 ft (1 m) CBL222-01 (Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) CBL223-02 (Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 6.6 m) CBL223-02 (Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-02 (Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-03 (Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 (Cambe Sa) (Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS052 (Camvas bag with 3 pipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) CCM-ANT-GPS GPS antenna with SMa connector and cable for use Sierra Wireless modern like RV-56 SLP001 Potable folding 100 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 60 Watt solar panel with integrate	EPS044-SLA	Noise monitor enclosure for 831C including CCS051, CCS052, BAT020 35 Ah SLA bat-
EPS044-LFP battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. License required to ship battery cquired to ship battery Combined weather sensor, wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DVX008A) TRP001 Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EP5030-831 to external PC, 2 m USB A-to-B Monopole for use in EP5044 and NMS044 systems BAT019¹ 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (11.2 kg) CBL222-08 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-00 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) 12V power. (8 ft / 2.4 m) Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL223-01 CBL224-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL226-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 CBL226-03 CBL226-03 CBL266-07 CBL276-08 CBL276-09 CBL27		
EPS2116 Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes, desiccants, and universal mounting Combined weather sensor: wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DVX008A). TRP001 Instrumentation tripod with ADP032 presumplifier to tripod interface TRP003 Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT019 ³ 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (11.2 kg) CBL218 Cable, USB-A to micro-8, 3 ft (1 m) CBL222-08 CBL222-08 CBL222-00 CBL222-00 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (26 ft / 6 m) Power cable for Silera Wireless with sense line and Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL223-02 Power cable for Silera Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for Silera Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL225-01 Power cable for Sall cor 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power cable with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-03 Cable, Im, with Mc-4 connectors for solar and bare wires (2 ft / 0.6 m) CBL226-04 CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-56 SLP001 Portable folding 600 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case SLP004 PSA040 SLP Saversupply, 15 V, 90 W, whore Pole output connectors. Input: 10	EPS044-LFP	battery, ACC009, PSA038, CBL224-02, CBL225-01, CBL226-02 & CBL228-03. License
SEN031 Combined weather sensor; wind speed and direction (no moving parts), temperature humidity, pressure, rainfall (requires CBL167 cable + DVX008A) Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT019³ 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 12.8 pounds (5.8 kg) CBL218 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.4 m) CBL222-09 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.6 m) CBL222-00 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft /0.6 m) CBL224-02 Power cable for Siera Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft /0.6 m) CBL224-02 Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft /0.6 m) CBL225-01 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft /0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft /0.6 m) CBL228-03 Cable, 1m, with Mc4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-56 SLP001 Postable folding 500 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 A Copower supply, 15 V, 90 W, with Mc4 connectors for use with EPS044 & NM	EPS2116	Environmental protection for 1/2 inch preamplifiers with windscreen, bird spikes,
humidity, pressure, rainfall (requires CBL167 cable + DVX008A) TRP001 Instrumentation tripod with ADP032 preamplifier to tripod interface TRP003 Support tripod, maximum height 8ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT019 45 Ah 12V LIFePo b attery, Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery, Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery, Weighs 2.4 pounds (1.1 kg) CBL218 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-08 (Cable, USB-A to micro-B, 3 ft (1 m) CBL222-08 (Cable, USB-A to micro-B, 3 ft (1 m) CBL222-109 (Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft / 6 m) CBL222-101 (Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft / 6 m) CBL223-02 Power cable for Sirera Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for S31C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL226-03 Cable, Im, with MC-4 connectors for solar and bare wires (2 ft / 0.6 m) CBL226-04 Power cable with Anderson Powerpole® connectors for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for Acc009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for Acc009 Power supply, 15.V9 owl, with MC4 connectors for solar and bare wire for use with solar charge controllers COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-55 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Postable folding for Watt so	CENIO21	Combined weather sensor: wind speed and direction (no moving parts), temperature
Support tripod, maximum height 8 ft (2.4 m) used in portable NMS systems CBL174 Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT019 ³ 45 Ah 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SIA battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SIA battery. Weighs 24.7 pounds (11.2 kg) CBL218 Cable, USB-A to micro-8, 3 ft (1 m) CBL222-08 12 Cable, USB-A to micro-8, 3 ft (1 m) CBL222-08 12 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.4 m) CBL222-20 12 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft /6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft /0.6 m) CBL224-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft /0.6 m) CBL226-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft /0.3 m) CBL226-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) CGM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-55 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10.4, used in EPS044 and NMS044 configurations PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output: 14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-LP Code-Rys-So-Ob-Cl-2, 2 ac. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW+h/m2/day NMS044- SLA-Sup-Spa03 & nec		humidity, pressure, rainfall (requires CBL167 cable + DVX008A)
CBL174 Waterproof cable connecting EPS030-831 to external PC, 2 m USB A-to-B ACC009 Monopole for use in EPS044 and NMS044 systems BAT0193 45A h 12V LiFePo battery. Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery. Weighs 24.7 pounds (11.2 kg) CBL218 Cable, USB-A to micro-B, 3ft (1 m) CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL222-20 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL225-01 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-03 Cable, 1m, with MC-4 connectors for solar and bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 LEP60-E ² SLP001 Portable folding for use uside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kWh/l/m2/day NMS044- LEP100-E ² SLP004-FF, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039		
ACC009 Monopole for use in EPS044 and NMS044 systems BAT019³ 4s Ah 12V LIFePo battery, Weighs 12.8 pounds (5.8 kg) BAT019³ 035 Ah 12V SLA battery, Weighs 24.7 pounds (11.2 kg) CBL218 Cable, USB-A to micro-B, 3 ft (1 m) CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.4 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL225-01 Power cable with Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for AcC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-5t SLP002 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case SLP004 SLA Battery Charger with Power Pole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7 VDC, 2:55A Complete NMS for use outside US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kWh/m/n/day NMS044- LFP100-L ² SLP004-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation >		
BAT019 ² 45 Ah 12V LiFePo battery, Weighs 12.8 pounds (5.8 kg) BAT020 35 Ah 12V SLA battery, Weighs 24.7 pounds (11.2 kg) Cable, USBA to micro-9, aft (1 m) CBL218 Cable, USBA to micro-9, aft (1 m) CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL222-02 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (1 ft / 0.6 m) CBL225-01 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) CCM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-56 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 Ac power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14:7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-01 PSA039 & necessary cables. For use when solar insolation > 2 kWH-lym/2/day NMS044- LFP60-12 PSA039 & necessary cables. For use when solar insolation > 1 kWH-lym/2/day NMS044- LFP100-12 PSA039 & necessary cables. For use when solar insolation > 1 kWH-lym/2/day NMS044- SLA60-1		
CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.4 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft /2.4 m) CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (2 ft /6 m) Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft /0.6 m) CBL223-02 Power cable for sall with Anderson Powerpole® connectors for 12V power (2 ft /0.6 m) CBL224-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft /0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors for 12V power (1 ft /0.3 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP001 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output: 14, 70DC, 2.25A Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PS0439 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-LFP60-E² S1C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PS0439 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-LFP60-E² S1C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PS0439 & necessary cables. For		
CBL222-08 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (8 ft / 2.4 m) Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for Silcra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 104, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-U² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E² S1C-OW-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- Complete NMS for use in US includ	BAT020	
CBL222-20 Cable connecting 831C or 831 to PRM2103 with Anderson Powerpole® connectors for 12V power. (20 ft / 6 m) CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL225-01 Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL226-02 Power cable with Anderson Powerpole® connectors for 12V power (1 ft / 0.3 m) CBL226-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLB ABttery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output: 14, rVDC, 2.25A Permanent Noise Monitoring Systems NMS044- LEP60-U² PSA039 A complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LEP, COM-RV50-DC-E, 2 e.a. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LEP100-LP Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LEP, COM-RV50-DC-CU, 2 e.a. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LEP100-LP Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LEP, COM-RV50-DC-CU, 2 e.a. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cable	CBL218	
CBL223-02 Power cable for Sierra Wireless with sense line and Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL224-02 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (2 ft / 0.6 m) CBL225-01 Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) CCOM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-50 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RYS0-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kWh/m/2/day NMS044- Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RYS0-DC-C, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP004-PSA039 & necessary cables. For use when solar insolation > 1 kWh/m/2/day NMS044- Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RYS0-DC-C, 2 ea. COM-ANT-	CBL222-08	12V power. (8 ft / 2.4 m)
CBL224-02 for 12V power (2 ft / 0.6 m) CBL224-02 power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m) CBL225-01 power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1 m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modern like RV-5t SLP001 Portable folding 100 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case SlP003 Ac power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 k NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz Oleona Sl-25 Accomplete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kWh/mz/day NMS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kWh/mz/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kWh/mz/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 2 kWh/mz/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC	CBL222-20	12V power. (20 ft / 6 m)
th / 0.6 m) Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS SPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-50 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-LP2 PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-LP3 NMS044- SLAGO-E NSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E NSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, E	CBL223-02	for 12V power (2 ft / 0.6 m)
CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL226-02 Power cable with Anderson Powerpole® connectors to bare wires (2 ft / 0.6 m) CBL228-03 Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PS	CBL224-02	Power cable for 831C or 831 with Anderson Powerpole® connectors for 12V power (2 ft / 0.6 m)
Cable, 1m, with MC-4 connectors for solar and bare wires for use with solar charge controllers CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-50 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with Mc4 connectors for use with EPS044 & NMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0,80-035A, Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² SLP01, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LEP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-LP NMS044- LFP100-LP NMS044- LFP100-LP Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW	CBL225-01	Power cable for battery with spade connectors and Anderson Powerpole® connector for 12V power (1 ft / 0.3 m)
CCS051 Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009 CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-56 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & MMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0,80-035A. Output: 14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E² SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLABOL SLABO	CBL226-02	
CCS052 Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm) COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-5t SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA049 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP004-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP004-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAG0-E SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAG0-E SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAG0-E SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAG0-E SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary c	CBL228-03	
COM-ANT-GPS GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-50 SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output: 14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-L	CCS051	Base enclosure for EPS044 and NMS044 systems that includes mounting plate, gland and mount for ACC009
SLP001 Portable folding 60 Watt solar panel with integrated stand and carrying case SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output: 14. TVDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E ² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAGO-E SLP004, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US includin	CCS052	Canvas bag with zipper and handles. 19 x 9 x 6 in (48 x 23 x 15 cm)
SLP002 Portable folding 100 Watt solar panel with integrated stand and carrying case PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & MMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0,80-035A. Output: 14.7VDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E² SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-E² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLP004, PSS04-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. F	COM-ANT-GPS	GPS antenna with SMA connector and cable for use Sierra Wireless modem like RV-50
PSA038 Solar charge controller, 10A, used in EPS044 and NMS044 configurations PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0,80-035A. Output:14.TVDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLA60-E SLACOM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar i	SLP001	
PSA039 AC power supply, 15 V, 90 W, with MC4 connectors for use with EPS044 & NMS044 PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.7VDC, 2.25A Permanent Noise Monitoring Systems Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-LFP60-LF Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-LFP100-E2 Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044-LFP100-U2 Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044-SLA60-E SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-SLA60-E SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-SLA60-E SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-SLA60-E SLP001, P		, , ,
PSA040 SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz 0.80-035A. Output:14.TVDC, 2.25A Permanent Noise Monitoring Systems NMS044- LFP60-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLAG0-E NMS045- SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SU, 831		Solar charge controller, 10A, used in EPS044 and NMS044 configurations
NMS044-		SLA Battery Charger with PowerPole output connectors. Input: 100-240VAC, 50-60Hz
NMS044- LFP60-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLP004, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E SLP004, PSA039 & necessary ca		
NMS044- LFP60-E² 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP60-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-S PS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E S1C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E S1C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E S1C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For us	Permanent Nois	= -
SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day	NMS044-	
NMS044- LFP60-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV EP5044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, PS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLP004-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, EP5044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SV, EP5044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA100-E SLP002, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044	LFP60-E ²	
LFP60-U ² PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- LFP100-E ² SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U ² PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & nec	NMS044-	Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-S
NMS044- LFP100-E² Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP5211G, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LFP100-U² Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E SIAC-SW, EP5044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, EP5044-SLA, COM-RV50-DC-U,		
LFP100-E ² S31C-SW, EP5044-LFP, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PKM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW+h/m2/day. Complete NM5 for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW+h/m2/day. SLA60-E NMS044-SLA, COM-RV50-DC-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day. Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-SLA, COM-RV50-DC-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day. Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EP5044-SLA, COM-RV50-DC-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day. NMS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EP52116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day. Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SC-ELA,	NMS044-	Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA,
NMS044- LFP100-U ² Complete NMS for use in US including Model 831C with 831C-LO6, 831C-ELA, 831C-SI EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA60-E Complete NMS for use outside US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LO6, 831C-ELA, 831C-SV EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E Complete NMS for use outside US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LEP100-LI Complete NMS for use in US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day		
LFP100-U² PS044-FP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002 NMS044- SLA60-E Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SY EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LEF100-LL Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day	NMS044-	Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-S
NMS044- SLA60-E Complete NMS for use outside US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA60-U Complete NMS for use in US including Model 831C with 831C-LO6, 831C-ELA, 831C-SEA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E Complete NMS for use outside US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- LEF100-LL Complete NMS for use in US including Model 831C with 831C-LO6, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day		
SLA60-E 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044-SLA100-E Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044-SLA100-E SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day	NMCOAA	
NMS044- SLA00-E NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SI SLA60-U NMS044- SLA60-U NMS044- SLA00-E NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SI SLA100-E NMS044- SLA100-E NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SU, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day NMS044- SLA100-E NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SU, EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA03-EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002,		831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116,
EPS044-SLA, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP001, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E SLP002, PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day SLP002, PSA039 & necessary cables. For use when solar insolation ≥ 1 kW-h/m2/day Complete NMS for use outside US including Model 831C with 831C-LOG, 831C-ELA, 831C-SUA, 2000-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW-h/m2/day Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-SUA, 831C-SU		
PSA039 & necessary cables. For use when solar insolation > 2 kW-h/m2/day NMS044- SLA100-E NMS04- SLA100-E NMS0		
831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002, PSA039 & necessary cables. For use when solar insolation > 1 kW+h/m/2040 NMS044-Complete NMS for use in US including Model 831C with 831C-LOG, 831C-ELA, 831C-ST EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002,	SLA6U-U	PSA039 & necessary cables. For use when solar insolation > 2 kW•h/m2/day
NMS044- LEP1001 LEP1004 - LEP1004 REPS044-LEP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002,		831C-SW, EPS044-SLA, COM-RV50-DC-E, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116,
EPS044-LFP, COM-RV50-DC-U, 2 ea. COM-ANT-HG, PRM2103-FF, EPS2116, SLP002,		

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