

Overview

Description

The MEON LiFe *Smart* is a self-contained cart power system that provides 18A[1] of 12V nominal DC and 20 Ah of internal Lithium-Iron-Phosphate ($LiFePO_4$) battery backup to ten standard 4-pin outlets, all in a single, silent, 1-rackspace module weighing less than 14 pounds. The chassis is constructed of durable powder coated aluminum, and the removable rack-mount ears can be adjusted and reversed to allow mounting in a variety of configurations. Inside, the unit features an upgraded DC power supply and low-loss power path controllers with solid-state MOSFET switching. A 1.5" color OLED display shows detailed system information. Two USB-A output jacks on the front panel can charge or power a variety of devices, and the MEON LiFe *Smart* can also be connected by USB cable to the optional Remote Audio SMART Remote for remote ON/OFF control and comprehensive battery monitoring.

Function

The MEON LiFe *Smart* features an illuminated single-button ON/OFF system. A momentary press of the button powers the unit ON. Holding the button for approximately 3 seconds powers the unit down; this delay helps prevent accidental power-down of the system.

When the unit is receiving 90–264VAC power, the power button glows GREEN, and current is provided by a low-noise AC-DC power supply (rated for 18A, 250W continuous output). When AC power is present, the internal battery is bypassed from the outputs and charged by its own dedicated, internal 102W battery charger. When AC power is unavailable or interrupted, the battery seamlessly takes over thanks to the power path controller circuitry, and the power button glows RED. When AC power is restored, the AC-DC supply takes over again, the battery resumes charging, and the power button glows GREEN. An external battery or DC source connected to the DC input is used only when AC power is unavailable; on AC power it carries no load.



Power button glowing red: the unit is running on battery

The Charge Status LED is lit red while the battery is charging and turns green when the battery is nearly full. Charging continues to taper off at a low rate after that; for a complete charge, leave the unit on AC power overnight. Thanks to the charge/discharge controller circuitry, the MEON LiFe *Smart* can remain connected to AC power indefinitely without overcharging or damaging the battery.

Internal $LiFePO_4$ Battery

Lithium-Iron-Phosphate ($LiFePO_4$) batteries share a common property with all Li-Ion technologies: they are lighter and smaller than equivalent capacities in other chemistries, such as Lead Acid and NiMH. However, a key advantage of $LiFePO_4$, compared to other Li-Ion types, is its superior thermal and chemical stability. $LiFePO_4$ cells are virtually non-combustible (even if mishandled during charge/discharge) and can handle much higher temperatures without degrading in performance. $LiFePO_4$ also offers a longer life and a higher peak-power rating than other Li-Ion designs, and it contains no toxic heavy metals.

[1] The 18A (250W) rating applies when running on AC power. The internal 400W AC-DC power supply is cooled by convection only (no fans), which limits its continuous output to 250W, about 18A at 13.8V. Sustained loads above this rating can overheat the supply, so keep the chassis vents clear and allow free space above the unit. On the internal battery, the maximum output is 14.6A.

The MEON LiFe *Smart*'s internal batteries are polyfuse-protected (7.3A each) for a combined maximum output of up to 14.6A. The batteries also feature protection from over-charge, over-discharge and short circuit conditions.

Does the MEON LiFe *Smart* Use Fans?

No. The MEON LiFe *Smart* was designed for convective cooling because cooling fans cannot be tolerated on a very quiet sound stage. This is why a 400W AC-DC power supply was selected: it achieves the rated 18A, 250W continuous output without any active cooling. When using AC power, it is best to mount the MEON with some free space above the chassis to allow proper convective airflow. Keep the vent slots in the sides of the chassis unrestricted during operation, especially while supplying maximum rated current.

The numbered front and rear panel diagrams are on the last page of this guide.

Installation and Connections

Mounting the MEON LiFe *Smart*

The MEON LiFe *Smart* can be mounted in a variety of ways. In a standard 19-inch rack it occupies a single rack space, and the mounting ears can be positioned so that the connectors face inward or outward. An ON/OFF button and Charge Status LED are on both sides of the unit to facilitate front or back mounting. The mounting ears are also adjustable so that the connectors can be recessed safely out of the way.



Mounting ears positioned to recess the rear connectors

The mounting ears can also be removed so that the MEON can be placed on a horizontal surface such as a cart shelf.



Rack ears removed for shelf mounting

Output Connectors

There are ten DC power outlets on the back of the MEON LiFe *Smart*, wired in the standard 4-pin XLR configuration of pin 4 (+), pin 1 (–). Each outlet has an auto-resetting breaker to protect against overload. Three of the outlets are heavy-duty connectors capable of supplying 9A each, and the remaining seven are rated for 5A each.



The seven standard 5A outputs

A typical sound cart (drawing 9A or less) can be powered through a single XLR outlet if desired. For example, if power on the cart is distributed through a Remote Audio BDS, HOT BOXv2, or HOT STRIP, a single 9A outlet on the MEON may be used to power multiple devices.

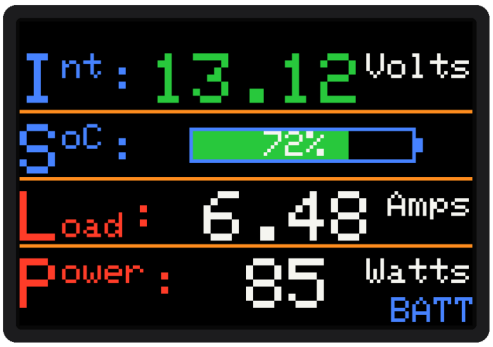
USB Connectors

The two front panel USB-A charging ports each have 3A auto-negotiating charge circuitry that supports dedicated charging port schemes for the battery charging specification (BC1.2), divider mode, 1.2V/1.2V mode, and quick charge specification QC 3.0 (3.6V–12V out). This greatly expands the USB charging capabilities of the MEON LiFe *Smart* for use with a wide variety of modern devices.

The lower USB port can also be used for a wired connection to the SMART Remote (sold separately); see SMART Remote. When USB Wired Remote is set to OFF (the default), both ports work as charging-only ports.



USB charging ports



Display Details ON, running on the internal battery

Display and Settings Menu

RGB OLED Display

The MEON LiFe *Smart* features a 1.5" color OLED display that is easy to read and can show either detailed system information or a simplified, at-a-glance system voltage like the MEON's predecessors. The layout is selected with the Display Details setting in the Settings Menu:

- **Display Details OFF** (the default): a large voltage readout and, when running on battery, a State of Charge (SoC) meter along the bottom for the battery supplying the load (no meter is shown while a DC source supplies it).
- **Display Details ON:** the active power source (Psu, Bat, Int or Ext), voltage, State of Charge, load current and power. The load current turns yellow when it reaches the overload limit of the source supplying it (see Overload Protection), and red above 20A.

The lower right corner of the display shows the power source: AC (green) on AC power, BATT (blue) on battery, or EXT (red) while an external source has priority and carries the load. When the internal and external batteries share the load, it shows BATT.

Display Dimming

To extend the life of the OLED panel, the display dims automatically after about 30 seconds without a button press or a new event. It returns to full brightness when a button is pressed, when the unit changes between AC and battery power, and whenever a warning appears. The Settings Menu, warnings and the High Temps! alarm are shown at full brightness. The exceptions are EXT EMPTY, EXT UNSTABLE, EXT OVERLOAD and EXT CHG FAULT, and EXT LOW while an empty external battery recharges: these warnings keep the display bright for the first 2 minutes, then dimming resumes as usual while the warning stays displayed.

A brief press of the front ON/OFF button temporarily brightens the display; it does not turn the unit off (holding the button for about 3 seconds still powers the unit down).

"MFB" Button

When the MEON LiFe *Smart* is turned OFF, the display is off to save battery power. Press the MFB button on the front panel to show the voltage and State of Charge (SoC) of the internal battery for about 4 seconds. When the MEON is powered ON, pressing the MFB button opens the Settings Menu.

Settings Menu

Press the MFB button with the unit powered on to open the Settings Menu. Each further press of MFB highlights the next item. A brief press of the front ON/OFF button changes the highlighted setting or opens the highlighted sub-menu. Only the front panel ON/OFF button is active in the Settings Menu.



Menu item	Options
Settings Menu	
Display Details	ON / OFF (default OFF)
-External DC Input	Opens EXT Input Settings
-Remote Control	Opens Remote Settings
-Battery Calibration	Opens Battery Calibration
~System Reboot~	Restarts the MEON (asks to confirm)
EXT Input Settings	
Ext. Source	None, DC, LiFePO4, SLA (default None)
Priority Mode	ON / OFF (default OFF)
Batt. Capacity	10–80 Ah in 10 Ah steps (default 20 Ah)
Recharge Battery	ON / OFF (default OFF)
Remote Settings	
USB Wired Remote	ON / OFF (default OFF)
Battery Calibration	
Calibration Stat	TRUE or NONE (display only)
Batt. Capacity	Stored capacity in Ah (display only)
-Clear Calibration-	Resets to 20.0 Ah (asks to confirm)

Settings Menu map. Each sub-menu also has "<-Return to Main Menu" and "<- Exit Menu ->".

Settings changed in the menu are stored and kept when the unit is turned off. The Settings Menu closes automatically after 30 seconds without a button press. The battery and overload protection keeps running while the menu is open; if a protective shutdown is needed, the menu closes and the unit shuts down normally.

System Reboot and Clear Calibration ask for confirmation before they act, as does setting Ext. Source to None when the internal battery can't take over the load (see External Source Protection). The confirmation screen opens with Cancel highlighted. Press MFB to move between Cancel and the action (Reboot Now, Clear Now, or Disable Input), then briefly press the front ON/OFF button to confirm. If no button is pressed within 15 seconds, the action is cancelled. During a System Reboot the outputs stay on while the MEON restarts, and the internal battery's State of Charge is saved and restored afterwards.

External Power

Supplemental Batteries and Other DC Sources

A 4-pin XLR male input connector on the back panel accepts supplemental batteries, such as Remote Audio's single rack space ExtraLiFe LiFePO4 battery modules (20 Ah and 40 Ah versions) or LiFeBox portable LiFePO4 battery modules (20 Ah and 30 Ah versions). Other 12V nominal DC sources, such as V-mount batteries or a regulated DC power supply, can also be connected.



DC input (4-pin XLR male)

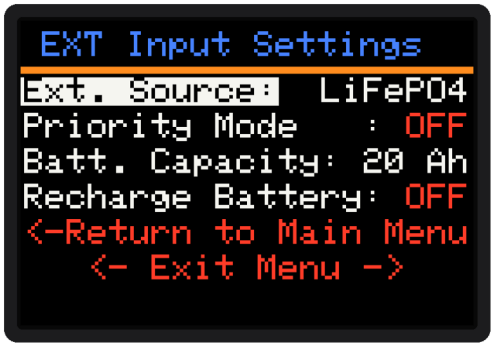
The DC input is wired pins 1 & 2 (battery –) and pins 3 & 4 (battery +). The contacts are doubled to improve reliability and reduce voltage drop, so if you make your own input cables, connect both pins 1–2 and pins 3–4.

Important: The external input accepts up to 17.0V. A higher voltage is disconnected immediately and the red EXT OVERVOLT banner is shown; the source is reconnected automatically once it has been at or below 16.7V for 5 seconds. Standard 14.4V V-mount batteries (16.8V when fully charged) are within this range and can be used with the DC source type. Do not connect sources above 17V, such as 19–20V laptop power supplies, 24V batteries, or high-voltage (26V/28V) V-mount and B-mount batteries.

Enabling the External Input

A supplemental battery or DC source must be enabled in the Settings Menu before the MEON will use it:

1. Connect the battery or DC source to the DC input on the back panel.
2. Open the Settings Menu and select External DC Input.
3. With Ext. Source highlighted, briefly press the front ON/OFF button to step through None, DC, LiFePO4 and SLA. Stop on the type that matches the source (see below).
4. Set Priority Mode, Batt. Capacity and Recharge Battery as needed, then exit the menu. Ext. Source, Priority Mode and Recharge Battery take effect when the menu closes, so nothing is connected or charged while you step through the choices. Batt. Capacity takes effect at once.



EXT Input Settings: selecting the source type

- **LiFePO4:** Remote Audio ExtraLiFe and LiFeBox modules, and other 12.8V LiFePO4 batteries.
- **SLA:** 12V sealed lead acid batteries.
- **DC:** any other 12V nominal DC source, such as a V-mount battery or a regulated DC power supply.
- **None:** the external input is turned off and the source is fully disconnected.

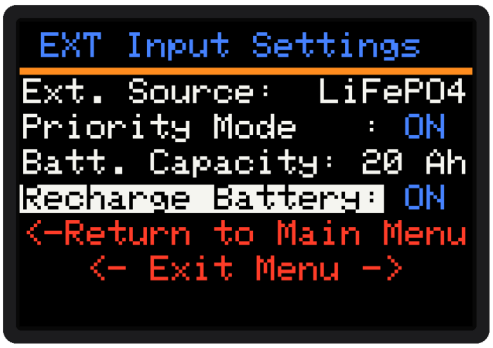
Before a source is connected, the MEON checks for about one second that its voltage is in range. A LiFePO4 battery must read at least 12.6V, an SLA battery at least 12.1V, and a DC source at least 10.5V. A battery below its minimum is treated as empty and is not used. It can still be recharged on AC power if Recharge Battery is ON, and it is connected once it has recharged to about 25%. When a LiFePO4 or SLA battery is connected, its State of Charge is first estimated from its voltage and then tracked as it is used.

External Input Settings

Priority Mode uses the external source first, saving the MEON LiFe *Smart*'s internal battery until the external source runs low. With Priority Mode OFF, the internal and external batteries share the load.

Batt. Capacity sets the approximate capacity of the external battery in amp-hours (Ah). Each press of the front ON/OFF button raises it by 10 Ah, from 10 Ah up to 80 Ah. Set it to the battery's rated capacity, to the nearest step; it doesn't need to be exact. A close setting gives a more accurate SoC reading and EXT LOW warning for the external battery.

Recharge Battery enables recharging of a connected LiFePO4 or SLA external battery when the unit is on AC power (it has no effect with DC selected). SLA batteries can be recharged by the MEON; however, for best performance it is recommended to charge them with a separate, dedicated SLA battery charger. Recharging an external battery also increases the overall charge time of the system.



EXT Input Settings: Recharge Battery

For safety, a LiFePO4 battery below 10.0V or an SLA battery below 10.5V is not charged. If an external battery has not reached full charge after 24 hours of charging, charging stops and the yellow EXT CHG FAULT banner is shown; unplug and reconnect the battery to try again.

External Source Protection

With LiFePO4 or SLA selected, the MEON protects the external battery in the same way as its internal battery. When the external battery's State of Charge falls to about 30%, or its voltage drops low, the yellow EXT LOW banner is shown. The SoC warning is used once the battery has been fully charged or run empty on this connection; until then, the warning relies on the voltage. Until the MEON has measured the battery's internal resistance on this connection (it does this when the outputs are turned on or off while the battery is connected and not charging), a voltage warning reads EXT LOW (EST), meaning the remaining margin is estimated. When the battery reaches its cutoff point, the MEON disconnects it and continues on the internal battery, and the yellow EXT EMPTY banner is shown. On AC power with Recharge Battery ON, the empty battery is recharged: the banner changes to EXT LOW, and the battery is reconnected automatically at about 25%. Unplugging an empty battery for at least 2 seconds clears the warning and resets it, so a charged battery can be plugged in to continue running on external power.

The MEON never moves more load onto its internal battery than the internal battery can safely carry. If an external battery runs out while the total load is above about 14A, or while the internal battery is itself depleted, the MEON performs a controlled shutdown ("EXT Empty Off") instead.

With DC selected there is no low-voltage cutoff; if a DC source drops out or its voltage falls, the internal battery takes over automatically. If any source drops out three times within one minute, the MEON stops using it and shows the yellow EXT UNSTABLE banner. Unplug the source for at least 2 seconds and reconnect it to reset.

Setting Ext. Source to None while the external source is carrying the load moves that load to the internal battery when the menu closes. If the internal battery can't safely carry it, a Disable EXT Input? screen opens with Cancel highlighted.

- With more than 14A of load on battery power, the screen warns that the internal battery will overload. Choosing Disable Input then has the same effect as unplugging the source, and Overload Protection applies, so reduce the load or the outputs will turn off.
- With a depleted internal battery, the screen warns that the outputs turn off when the menu closes. Choosing Disable Input then performs a controlled shutdown.

Choose Cancel, or wait 15 seconds, to keep the external source. If the load rises above 14A before the menu closes, the setting is put back and the source stays connected.

SMART Remote

The MEON LiFe *Smart* is designed for use with the SMART Remote control (sold separately), which shows the MEON's status and performance and can turn the MEON's outputs ON and OFF remotely. The SMART Remote connects to the lower front panel USB port with a USB cable. To enable the connection, open the Remote Control sub-menu and set USB Wired Remote to ON.



Remote Settings

Battery Calibration

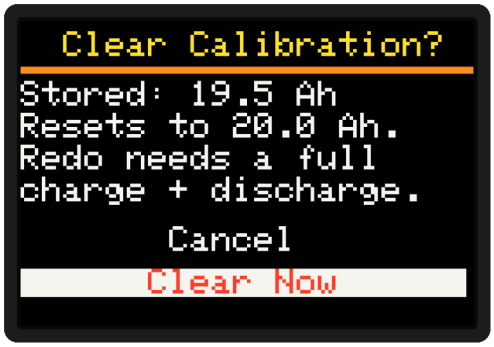
The MEON LiFe *Smart* can recalibrate its internal battery pack for a more accurate State of Charge during battery operation. Every unit has an initial calibration performed at the factory during quality control. While LiFePO4 batteries benefit from increased stability and longevity, every battery pack slowly loses useful capacity over time. If you notice that the MEON shuts down well before the SoC meter reaches 0%, clear the current calibration data and run a calibration cycle.

You will need a steady "dummy" test load of about 5–10A; 10A is recommended (for example, one or two 12V, 60W H6054 headlights). At 5A the cycle takes about 4 hours; at 10A, about 2 hours.

Running a Calibration Cycle

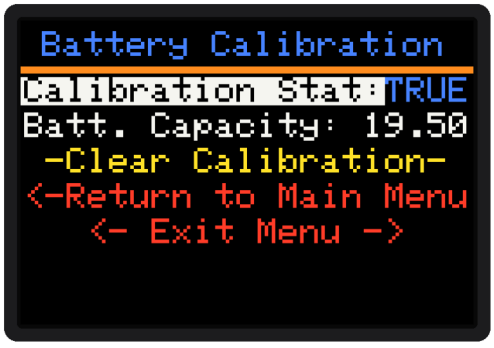
1. Disable any supplemental battery (set Ext. Source to None) or unplug it from the DC input.

2. Connect AC power and let the internal battery charge overnight. The Charge Status LED turns green before the battery is completely full (the charge current is still tapering off), so don't start the discharge as soon as it turns green. The MEON uses this full charge as the starting point of the measurement.
3. Connect the test load to the outputs and turn the outputs on.
4. Open the Settings Menu, select Battery Calibration and highlight -Clear Calibration-. Briefly press the front ON/OFF button. The confirmation screen shows the capacity currently stored; press MFB to highlight Clear Now, then press the front ON/OFF button to confirm. Calibration Stat now shows NONE and Batt. Capacity is reset to the default 20.0 Ah.



Clear Calibration confirmation with Clear Now highlighted

5. Exit the Settings Menu, then disconnect AC power. Let the MEON run the test load until the internal battery is depleted.
6. The MEON measures the battery's usable capacity and stores it when it performs its automatic low-battery shutdown ("Low Battery Off").
7. Reconnect AC power. Calibration Stat should now show TRUE, and Batt. Capacity shows the new value.



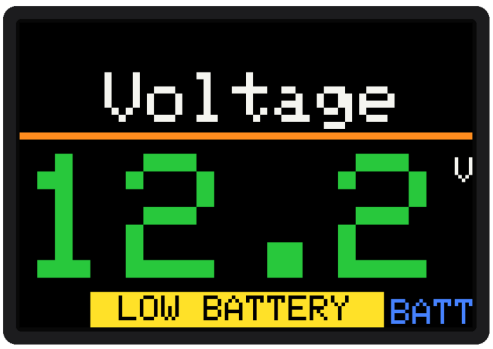
Battery Calibration menu after a successful calibration

A measured capacity below 10 Ah is not stored. A capacity below 16 Ah (80% of the battery's rating) means the internal battery is worn; contact Remote Audio about a replacement. If a calibration is already stored, a new cycle refines the stored value gradually instead of replacing it. That is why the procedure clears the calibration first, and why the calibration should always be cleared and rerun after the internal battery is replaced.

Protection and Warnings

Low Battery Warning and Automatic Shutdown

When running on battery, the MEON LiFe *Smart* tracks the internal battery's State of Charge and warns you well before it runs out. When the SoC falls to about 19%, or the battery voltage drops low, a yellow LOW BATTERY banner appears at the bottom of the display and the red light in the power button begins to flash. The flashing speeds up as the battery drains, from about once every 4 seconds at 15–19% to once per second below 5%. With Display Details OFF, the banner alternates with the SoC meter in step with the flashing, so the meter stays readable. With Display Details ON, the banner alternates with the Power row in step with the flashing, so both stay readable.



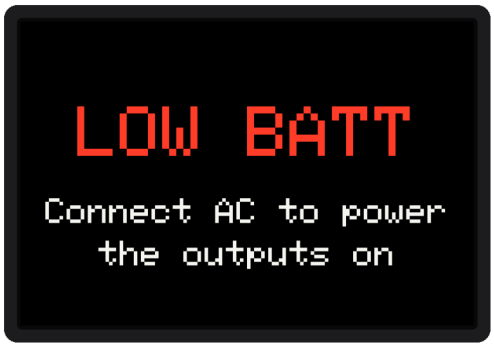
LOW BATTERY banner with Display Details OFF

With a calibrated battery, the warning comes roughly 40 minutes before shutdown at a 5A load, 20 minutes at 10A, and 15 minutes at the 14.6A maximum. From a full charge, the battery runs about 4 hours at 5A, about 1.9 hours at 10A, and about 80 minutes at 14.6A. These times are approximate and depend on the battery's age and calibration.

Before the internal battery's own protection circuit cuts the power, the MEON performs a controlled shutdown: the display shows "Low Battery Off" and the outputs

turn off. The shutdown point allows for the voltage drop under load, so heavy loads aren't cut off early.

After a low-battery shutdown, the outputs stay off until AC power is connected. If the ON/OFF button or the SMART Remote is used to turn the outputs on before then, the display shows "LOW BATT – Connect AC to power the outputs on" (with the external input on: "Connect AC or valid EXT input to turn on") and the unit stays off. Once AC power is connected, press the ON/OFF button to turn the outputs back on. If the external input is on and a source of at least 12.0V is connected, the outputs can also be turned on and run from the external source. If that source is then disconnected or runs out, the MEON turns off again ("Low Battery Off").



Power-on refused after a low-battery shutdown

The SoC reading is most accurate after the battery has been fully charged on AC power. If the unit has not been fully charged since it was powered up, the SoC is an estimate based on the battery voltage at power-up, which errs on the low side; the warning then relies on the battery voltage, and the power button flashes at its fastest rate when it appears.

Overload Protection

The MEON LiFe *Smart* monitors the current drawn from each power source. If the load stays above a source's rating for more than 3 seconds, a red OVERLOAD banner is shown: above 18.2A on AC power, above 14.6A on the internal battery, or above 18A through the external DC input. On AC power, OVERLOAD is a warning; reduce the load to clear it. On the internal battery, a short overload is allowed, but a sustained one ends in a controlled shutdown ("Overload Off") before the battery's own protection can cut the power without warning. The heavier the overload, the sooner the shutdown comes: nearly 5 minutes at 15A, about 80 seconds at 16A, 30 seconds at 18A and 18 seconds at 20A. Brief peaks don't cause a shutdown. Once the load is reduced, the outputs can be turned straight back on.

The external DC input's connector is rated for 20A. Between 18A and 20A, OVERLOAD is a warning. Above 20A, a short overload is allowed (about 80 seconds at 21A, 15 seconds at 25A). After that, the MEON performs a controlled shutdown ("EXT Overload Off") and disconnects the external source, and the yellow EXT OVERLOAD banner is shown. The source is reconnected once the outputs have been off for 60 seconds, or when it is unplugged for at least 2 seconds and reconnected.

High Temperature Warning

The MEON monitors the temperature of its AC-DC power supply. If it reaches 90°C (194°F), "High Temps!" is shown at the bottom of the display. The warning clears when the temperature drops below 87°C (189°F). The unit keeps running; improve the airflow around the chassis or reduce the load.

Internal Battery Protection

In addition to the resettable circuit breakers on each output, the internal battery is protected from overload and short circuits. In normal use the MEON LiFe *Smart* turns its outputs off before this protection is reached (see Low Battery Warning and Automatic Shutdown, and Overload Protection). However, a short circuit or a sudden, severe overcurrent event while running on battery may still activate the protection circuit of the internal battery. In this condition, the MEON will not power back on until AC power is applied.

Warnings and Status Messages

Warnings appear as a banner on the bottom row of the display. If more than one is active, the most important is shown. Red banners indicate a fault and stay on steadily. With Display Details OFF, yellow banners alternate with the SoC meter when it is shown. With Display Details ON, they alternate with the Power row.

Banner	Meaning
SENSOR FAULT	The internal battery's sensor is not responding. The low-battery shutdown is suspended, and the battery's own protection is the only safeguard. If it does not clear, contact Remote Audio.
EXT OVERVOLT	The external source is above 17V and has been disconnected.
OVERLOAD	The load is above the rating of the source supplying it.
LOW BATTERY	The internal battery is running low.
EXT EMPTY	The external battery reached its cutoff, or was too low to connect, and is disconnected.
EXT UNSTABLE	The external source dropped out repeatedly and is disconnected until it is replugged.
EXT OVERLOAD	The external source was disconnected after an overload above 20A through the DC input.
EXT CHG FAULT	The external battery did not reach full charge within 24 hours; charging has stopped.
EXT LOW	The external battery is running low, or an empty external battery is recharging on AC power. EXT LOW (EST): a voltage warning whose margin is estimated.
High Temps!	The AC-DC power supply is at 90°C or above (shown in yellow text, not as a banner).

When the outputs turn off, the bottom row of the display shows why:

Message	Reason
Powering Down	Turned off with the ON/OFF button or the SMART Remote
Low Battery Off	Internal battery depleted, or the external source it was running on was lost
Overload Off	Internal battery overloaded (see Overload Protection)
EXT Empty Off	External battery ran out with too much load for the internal battery
EXT Unstable Off	External source kept dropping out with too much load for the internal battery
EXT Overvolt Off	External source went above 17V with too much load for the internal battery
EXT Overload Off	Over 20A through the external DC input for too long

Storage and Shipping

The MEON draws a small current from its internal battery even when it is turned off. Before storing the unit, unplug all loads from the outputs and any battery or DC source from the DC input. Connect AC power and let the battery fully recharge at least every 3 weeks.

For longer storage, or for shipping, disconnect the internal battery. **Always unplug AC power before opening the chassis.**

1. Charge the battery fully on AC power.
2. Unplug AC power and run a load from the outputs until the display's State of Charge reads the level you need, then turn the unit off: about 50–60% for long-term storage, or the carrier's limit for shipping.
3. Remove the top chassis cover (Phillips PH1 screws).
4. Unplug the battery's Anderson Powerpole connector.
5. Refit the top cover.

To return the unit to service, keep AC power unplugged while you remove the top cover and reconnect the Powerpole. Refit the cover, then connect AC power and let the battery charge fully before use.

After a low-battery shutdown, recharge the MEON promptly: the battery keeps supplying the small idle

draw and can run down until its own protection cuts the power (see Internal Battery Protection).

Noise and Shared Power Systems

Unwanted audible noise can occur through a common (shared) power source, typically due to "ground loops" from the various internal power supplies of the devices being powered. To optimize your system, use line level signals instead of mic level signals whenever practical, and turn phantom power off on all preamp inputs that are connected to non-microphone devices.

If noise is still heard, unplug one device at a time from the MEON, noticing any change in noise as each device is removed. If the noise goes away after unplugging a particular device, try powering that device from a separate battery. If that makes the noise go away, the problem is a ground loop caused by the combination of a common power source and the audio grounding scheme. This noise will not be removed by the "LC" filters found in some cart power supplies. To remove it, try one of these options for interrupting the ground loop:

1. Use a separate battery for the offending device.
2. Try different grounding/floating schemes with the audio cables.
3. In devices that use a single 9V battery, use an isolating 9V battery eliminator.
4. Use a power isolator cable such as the Remote Audio Juicer cable.

Specifications

Dimensions	19.00" x 13.00" x 1.75" (1 rack space)
Weight	12.6 lbs
AC Input Voltage	90–264VAC, 50–60Hz
DC Input Voltage	12.8V $LiFePO_4$, 12V nominal lead acid, or 10.5–17V DC
DC Output Voltage	12V nominal (unregulated); low-battery shutdown approx. 11.8V, corrected for load (the voltage shown under load is lower)
Output Current	18A max total (AC); 14.6A max total (internal battery)
Output Connectors	3x Neutrik 4-pin XLR female, 9A each; 7x Neutrik 4-pin XLR female, 5A each
Battery Capacity	20 Ah (expandable with optional battery modules)
Battery Charger	13.8V, 102W battery charger (about 7.5A)
Power Switch	Illuminated, front and rear mounted
USB Ports	2x USB-A, 3A (18W) max continuous charging rate per port
Revision	Hardware Rev. 1.1, firmware Rev. 1.1a (shown on the display at power-on)

Front and Rear Panels



1. Removable rack ears for recessed or reverse mounting
2. 1.5" color OLED display
3. MFB button
4. Dual USB-A charging ports (the lower port also connects the SMART Remote)
5. Charge Status LED
6. Illuminated power ON/OFF button: green on AC power, red on battery



7. AC input, 90–264VAC nominal, 50/60Hz. 5A Fast-Blo fuse, GMA or S500 (2.5A for 240VAC locations)
8. Power ON/OFF button
9. Charge Status LED
10. DC input (4-pin XLR male): pins 1 & 2 (–), pins 3 & 4 (+)
11. High-capacity DC outputs, 9A each: pin 1 (–), pin 4 (+)
12. Standard DC outputs, 5A each: pin 1 (–), pin 4 (+)

Limited Warranty and Regulatory Information

Limited Warranty. Remote Audio warrants the MEON LiFe *Smart* against defects in materials and workmanship for a period of one (1) year from the date of original retail purchase. The internal battery pack is warranted for six (6) months. Remote Audio will repair or replace qualifying products at its discretion.

This device contains FCC ID: 2AN9S-ABX00032
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) this device must accept any interference received, including interference that may cause undesired operation.

This device contains IC ID: 26792-ABX00032
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference. (2) this device must accept any interference, including interference that may cause undesired operation of the device.