

Pack-Power System™ Quick Reference Guide Models: PP100-001

**Please read this guide before installing
and operating the Pack-Power System™**

Operational Guidelines

Power Input:

Pack-Power is compatible with many sources, including solar panels, automobiles, military vehicles, external batteries, generators and wall outlets (via the AC adapter). The system can accept up to 150W, which allows simultaneous full 100W output and battery charging.
Note: Autostart (selected via PC App USB B) turns unit on upon application of input power

Power Outputs:

Pack-Power provides up to 100W total continuous output including the VDC regulated output and USB hub. Each USB 3.0 Type A connector is capable of delivering up to 10W (5V @ 2A)

Battery Charging:

0 to 100% SOC requires approximately 3 hours based on 50W charging power.
Note 1: In order for system to charge, input power must be at least 50W greater than the total load.
Note 2: Use Deep Sleep Mode (user selectable) for extended shelf life

Battery Runtime:

With a typical 10 W total mean load, Pack-Power delivers in excess of 9 hours runtime. At 100W continuous output, runtime is approximately 45 min.

SuperSpeed USB 3.0 Data Hub:

In addition to providing power, the USB ports allow monitoring, control and transmit/received data exchange with a PC, tablet, or other devices. Compatible with USB 2.0

USB Remote Status Reporting:

The USB Data Hub also provides Pack-Power operational information, including SOC and charging status. This information can be displayed on a PC/tablet via the Acumentrics Pack-Power Application.

Optional Bluetooth Communications:

Provides operational status and control functions via the optional Acumentrics Pack-Power Mobile Application (iOS / Android)

Deep Sleep Mode:

Activation: When unit is on, press and hold power button until 5 red flashes are observed. Unit will then turn off.

Deactivation: Press power button twice within 3 seconds. Unit will then turn on.

**Charge battery within 24 hours after
depleting to 0% SOC**

**100W Maximum total output power
(VDC output and USB ports)**

State of Charge (SOC):

Light flashing: System charging
1 light: <25% charged
2 lights: 25%-50% charged
3 lights: 50%-75% charged
4 lights: 75%+ charged
4 lights, no flashing: 100% charged

SuperSpeed USB 3.0 Hub:

Power and Bidirectional Data
Active when Power ON
USB Type A: Connect to devices (10W max per port)
USB Type B: Connect to PC/Tablet

12VDC Regulated Output

Blue: Providing Output Power
"12V" symbol illuminated when active
Red: Fault condition
Note: 28VDC available as an option

10-30VDC Input (150W maximum)

Blue: Connected to active power source
Red: Fault Condition



Bluetooth Communications:

No light: Disabled
To enable: Press Bluetooth button –
Flashing Blue indicates
ready to pair
Flashing Red: Paired

Pushbutton ON/OFF:

No light: OFF
Blue: ON

Note 1: To reset after Fault Condition, turn unit OFF then ON.

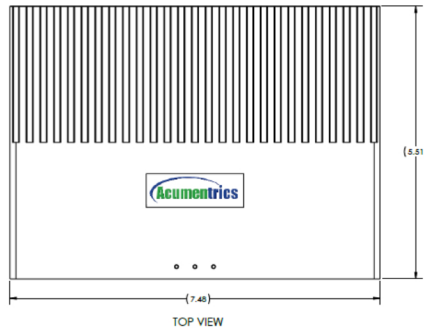
Note 2: To ensure long cycle life and safety, unit will enter Deep Sleep Mode after 24 hours at 0% SOC. To "wake up" unit out of Deep Sleep Mode, press power button twice within 3 seconds.

PLEASE ACTIVATE DEEP SLEEP MODE BEFORE SHIPPING OR STORAGE. If unit is at 100% SOC, shelf life is one year. If 0% SOC, shelf life is six weeks.

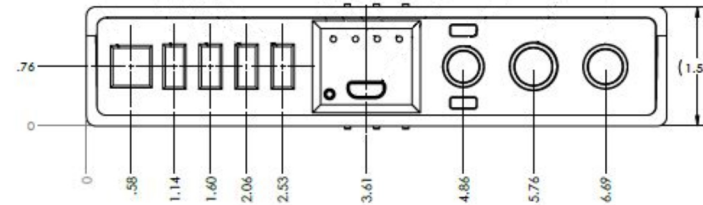
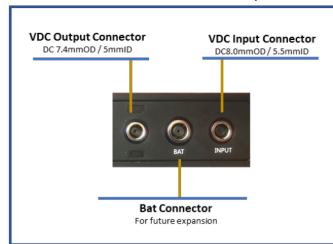
Bat Connector:

For future expansion capabilities
Blue: Unit ON

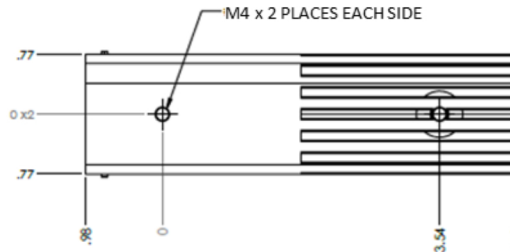
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Connector Guide
Contact Acumentrics for Accessory Kits



FRONT VIEW



RIGHT SIDE VIEW
(TYP BOTH SIDES)



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

*RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

LIFE SUPPORT USE INFORMATION, Life Support Policy

As a general policy, Acumentrics does not recommend the use of any of its products in life support applications where failure or malfunction of the Acumentrics product can be reasonably expected to cause failure of the life support device or to significantly effect its safety or effectiveness. Acumentrics does not recommend the use of any of its products in direct patient care. Acumentrics will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to Acumentrics that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of Acumentrics is adequately protected under the circumstances.

Examples of devices considered to be life support devices are neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), auto transfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pace makers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators for both adults and infants, anesthesia ventilators, and infusion pumps as well as any other devices designated as "critical" by the U.S. FDA.

Manual 91-0213_E

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Support: (617) 932-7877 or 844-RUPS-USA www.acumentrics.com

Please read this guide before installing
and operating the Pack-Power System™

Key Specifications

External Dimensions and Weight

1.54" x 5.51" x 7.48" / 2 lbs

Global Power Input (150W, 13A maximum)

10-30 VDC (up to 150W)
100-260VAC / 47-63Hz with AC power supply
Autostart feature (factory set)

Power Outputs (100W Total Maximum Continuous)

12VDC +/- 5% Regulated, 28VDC optional
4 x USB 3.0 Type A (Up to 10W each)

Battery Charging:

3 hrs for 0% to 100% SOC @ 50W charging power
Li-Ion

Battery Runtime:

9 hours at 10W mean total load

USB 3.0 Data Hub:

5 Gbit/sec maximum

Mounting:

4 x M4 threaded Holes (see Side View)

Designed to Meet:

UN/DOT 38.3 FAA Carry on compliant
IP54 Dust and Splashing Water Resistant (with
connectors plugged in or covered)
UL (AC adapter)

Safety / Protection for Long Cycle Life:

Undervoltage, Overvoltage, Overcurrent,
Overtemperature, Overpower

Warranty:

One Year Limited

For more
information regarding
accessories and options