



LITHIUM BATTERY POWER



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www.LithiumBatteryPower.com

Lithium 48v Volt Waterproof Charger

SKU #LBP4820L-WP

20 AMP HOUR electronically controlled Rapid Charger

For the use with 48v Lithium Batteries only



1. Features:

- a. Short circuit protection, charge output will not enable and will not spark if terminals touched together.
- b. Overload protection, current-limited.
- c. **RPP** "Reverse polarity protection", connecting a battery in reverse does no damage to charger. Fuse-less-Relay design.
- d. Automatic multi-rate charging, CC/CV profile with Pre-charge @0.25a.
- e. Simple Two LED display; LED1 Red (AC Power on), LED2 Red (charging) and Green (full)
- f. Low voltage protection, charger will not enable if battery's voltage is below safe charging thresholds. CONTACT Lithium Battery Power for support.

2. Operation:

- a. Connect charger to a 110/220 VAC wall socket
- b. Connect DC output cord to battery terminals
- c. Press power switch to the on position on the chargers back panel.
- d. When LED2 turns green, battery is fully charged **

3. Notes:

- a. Waterproof designed case
- b. Designed for **Lithium batteries only**, not for charging any other type of battery.
- c. To calculate charge time you must take the battery amp hour and divide it by the Charger Amp hour output which will equal the amount of time to fully charge based on a 0% level of the battery.
Example: (10 amp battery ÷ 2 amp charger = 5 hours to full charge from 0%)
- d. Do not leave the battery charging longer than the calculated time frame above. CONTACT Lithium Battery Power for support.
- e. Always place the charger in a well-ventilated and dry environment
- f. Do not cover or seal the charger, the aluminum housing is the heat sink to properly cool the charger.
- g. Charger is thermally protected, Certain model chargers the fan will operate only around 40°C or 104°F degrees.
- h. Use only on capacity rated Lithium Batteries the charger is intended for.
- i. **DO NOT leave charger unattended WHILE CHARGING.**

Charger Specifications:

Model: LBP4820L-WP

DC Output

DC output voltage, nominal: 57.8v

DC output current, maximum: 20A

Efficiency, 98%

AC Input

AC input voltage range: 90-243VAC

AC input voltage-nominal: 110VAC/220VAC

AC input frequency: 50-60Hz

Mechanical

Dimensions: 9.1x4.7x2.8" (230x120x70mm)

Net weight: 5.5lbs (2.5kg)

Operating Temperature: 14F-113F (-10C-45C)

Storage Temperature: -40F-158F (-40C-70C)

External Fan Operating Temperature: 104F (40C)

AC input: US plug, Europlug, EIC320/C13 connector, 1.5 meter

DC output: Colored Alligator clips, 1.5 meter

Regulatory

Safety standard: CE listed, NRTL, UL compliant

Safety-Europe: EN60335-2-29:2002

Packing List

1x charger; 1x user manual; 2x AC power cord (110VAC, 220VAC)