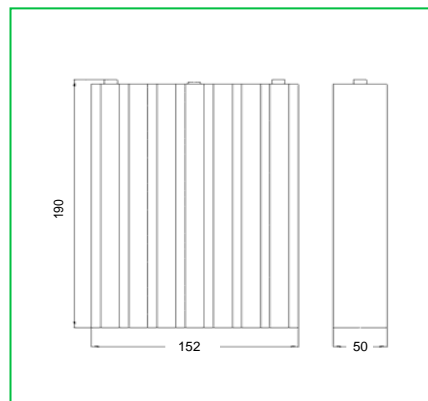


Lumos LiFePO4 Battery HP-PWAH Specification

Basic Information

Nominal Voltage	3.2V
Nominal Capacity @23°C/77°F	50AH @C/3 Discharge
Available Capacity @23°C/77°F	≥ 98% at 1C Discharge
	≥ 95% at 2C Discharge
	≥ 90% at 3C Discharge
Specified Volumetric Density (C/3, 23°C/77°F)	110.8Wh/L
Specified Gravimetric Density (C/3, 23°C/77°F)	84.6Wh/Kg
Specific Power (23°C/77°F)	424W/Kg @ 15 sec; 254W/Kg (continuous)
Internal Resistance	≤ 1.50 Ω m
Cycle Life (23°C/77°F)	2000 times @80% DOD
	1000 times @100% DOD
Dimensions (L x W x H) Include terminals & Bus Bar	152 x 50 x 190 mm (5.98 x 1.97 x 7.48 inch)
Weight (Include terminals & Bus Bar)	1.89Kg/4.17lbs
Bolt Type	M12
Pole Distance (mm)	84 mm

Picture & Drawings



Advantages:

- Long Cycle Life
- No Memory Effect
- High C-Rate Charging & Discharging Capability
- Great DOD Peak Power
- Excellent High & Low Temperature Performances
- Environmental Friendly
- Safe

Charge Methods (@ 23°C/77°F)

Charge Voltage	3.65V
Cut-off Voltage	3.85V
Charge Mode	CC/CV (3.65V)
Standard Charge Current	16.7A (C/3)
Max. Continuously Current in CC Charge State	≤ 50A (1C) @0~90% SOC
Peak Charge Current	≤ 100A (2C) @0~80% SOC
Balance Time in CV State	1~2 hours
Float Charge Current	3.40V

Discharge Methods (@ 23°C/77°F)

Discharge Voltage	3.20V @ C/2 Discharge
End Voltage	2.50V
Standard Discharge Current	16.7A (C/3)
Max. Continuously Current	150.0A (3C)
Peak Discharge Current	
Peak Discharge Current for 5 seconds	≤ 500A (10C)
Peak Discharge Current for 15 seconds	≤ 250A (5C)
Peak Discharge Current for 60 seconds	≤ 250A (5C)
Self-discharge Rate	3% (Monthly)

Temperature Characteristics

Working Temperature	Charge	0~45°C/32~113°F
	Discharge	-20~60°C/-4~140°F
Storage Temperature	1 Month	-20~60°C/-4~140°F
	3 Months	-20~45°C/-4~113°F
	6 Months	-20~25°C/-4~77°F
Water/Dust Resistance	IP67	
Atmospheric Pressure	86~106Kpa	
Operation Humidity	25~85%, Non-condensing	

Approved by   



Lumos Power & Electronics Co., Ltd.

To ensure safe and efficient operation, please always refer to the latest edition of our Technical Manual as published on our website: www.cnlumos.com

All datas subject to change without notice.