



LEP SERIES

The LiFePO4 lithium battery cells used in the Smart LEP series rack mount lithium battery pack have a long cycle life (6000 cycles) and dependable performance. This lithium LiFePO4 battery pack has a modular, rack-mounted architecture that allows it to be used safely either singly or in parallel, up to a maximum of 16 battery packs. Intelligent BMS built right in to safeguard the battery pack always and increase its lifespan.

Features

- High cycle life and deep cycle ability: 6000 cycles(+25°C 0.2C 80% DOD)
- Very long usable life: 5 years warranty, 10 years life design
- 4U rack mount design, flexible parallel expansion and maintenance
- Intelligent BMS battery management system
- Multiple communication functions(RS485/SNMP/Wifi/Bluetooth), supportive various brand of solar inverter/charger
- Comprehensive protection, such as SOC/SOH/ Anti-theft function, etc
- Support on-grid/off-grid solar system and other loads
- Support up to 16 battery packs used in parallel
- Front display to monitoring status

Technical Parameter

Model	LEP24-100	LEP48-100	LEP48-200
SPECIFICATION			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Battery Voltage	25.6V	51.2V	51.2V
Nominal Capacity(25°C, 0.2C)WH	2560Wh	5120Wh	10240Wh
Operating Voltage Range (Vdc)	22.4 ~ 29.2V	42 ~ 54.8V	42 ~ 54.8V
Float Charge Voltage(Vdc)	28V	56V	56V
Recommended Charge Current (A)	50A	25A	50A
Max. Charge/ Discharge Current(A)	100A	50A	100A
Peak Discharge Current(A)	150A 1Sec.	100A 1Sec.	150A 1Sec.
Battery pack round trip efficiency	95%	95%	95%
Depth Of Discharge	80%	80%	80%
Cycle Life(+25°C 0.2C 80% DOD)	6000 Cycles	6000 Cycles	6000 Cycles
Communication function	RS485/CAN(Standard), SNMP/Wifi/Bluetooth(Optional)		
Display	LED* 5 (LCD Display optional)		
Scalability	Upto 8	Upto 8	Upto 8
Cooling Method	Natural Convection		
Installation Location	Indoor	Indoor	Indoor
PROTECTION			
IP degree	IP20	IP20	IP20
Safety standard	UN38.3,MSDS,CE		
Protection	Overcharge protection\Overdischarge protection\Overcurrent protection\Shortcircuit protection\Overtemperature protection		
AMBIENT			
Noise Emission	< 40dB(1 meter)		
Operating temperature	-10°C ~ +50°C		
Storage temperature	-20°C~55°C		
Humidity	0 ~ 95%(no condensation)		
Operation Altitude	<3000m		
PHYSICAL			
Demension(L*W*H)(mm)	L444*W483*H178	L665*W483*H178	L810*W483*H178
Weight(NW Kg)	27.1	47.8	79.3
Weight(GW Kg)	28.9	49.8	82.6

Product specifications are subject to change without notice.

When it comes to reliability, our lithium batteries won't let you down. Get in touch with your local distributor. Visit www.lithiumbatts.com or talk to one of our Certified ROYCE ENERGY.

Email us: sales@royce-energy.com