

LITHIUM ION BATTERY MODULE- 48V/100AH

LP-LFP48100-ID



PRODUCT DESCRIPTION

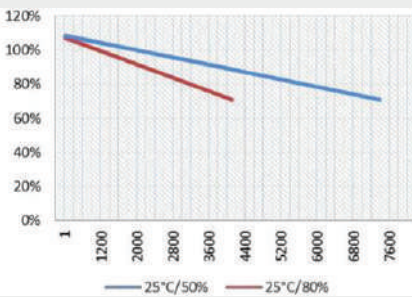
The Lithium ion battery designed by Lineage is an advanced power backup module which is compact, highly power efficient with wide operating temperature and long life. In-built smart BMS features monitoring and control of voltage, current, temperature, SOC, SOH, energy,

Battery Module adopts advanced smart BMS which adds:

- Warning and protection function against over- discharging, over-charging, over-current, temperature etc.
- Optimization and management to the battery charging and discharging.
- Communication interface with external controller.

KEY FEATURES

- Capacity 4.8kWh(48V/100Ah)
- Modular design in a standard 19" for Rack Mount in a 4U height
- Cells compound mode 1P15S
- Optional LCD display
- Highly efficient with Cycles > 4000Cycles
- UL & IEC Certification's
- Suitable for TELECOM Backup applications



TECHNICAL SPECIFICATION

PARAMETERS

DESCRIPTION

BATTERY CHEMISTRY	LITHIUM IRON PHOSPHATE (LFP)
RATED VOLTAGE	48V
RATED CAPACITY AH (0.2C, 25°)	100Ah
RATED ENERGY WH (0.2C, 25°)	4800wh
AH EFFICIENCY	>95%
VOLTAGE RANGE V	-42V TO 55.5V ±0.2V
CHARGE VOLTAGE	-54V ±0.2
CHARGING MODE	CC/CV
MAX. CHARGE CURRENT LIMITATION (CLD)	100A
DISCHARGE CUTOFF CURRENT (A)	100A
END OF DISCHARGE VOLTAGE	42V
CALENDAR LIFE @ 35°C, CLASS I&II AREA	12 YEARS
CYCLE LIFE[80%DOD, 25°C,@0.5C CHARGE & 0.5C DISCHARGE]	>4000 CYCLES
COMMUNICATION PROTOCOLS	RS 485 (MODBUS) -2 PORTS
MECHANICAL & ENVIRONMENTAL WORKING CONDITIONS	
ENCLOSURE SIZE	19" 4U
IP CLASS	IP 20
MODULE DIMENSION[MM]	W 482 MM *D 480 MM* H 178 MM(4U)
CIRCUIT BREAKER	MCB 125A SP
WEIGHT	APPROX. 45 KG (99.2 LBS.)
OPERATING TEMPERATURE CHARGING & DISCHARGING	CHARGING : 0°C TO +45°C DISCHARGING : -10°C TO +65°C
STORAGE TEMPERATURE AND TIME	6MONTHS @ 20°C TO 25°C
SAFETY STANDARDS	CE , UL 1642, IEC 62619, IEC 62133