

LOW997 INDUSTRIAL

Technical datasheet - placeholder document

BR-48100 Rack-Mounted LiFePO4 Battery Module

Model BR-48100 - Energy Storage & Power Conversion

3U 19-inch rack-mounted lithium iron phosphate module with an integrated BMS and CAN / RS-485 telemetry, built for parallel expansion in telecom and commercial cabinets.

SPECIFICATIONS

Cell chemistry	LiFePO4 (LFP), prismatic
Nominal voltage	51.2 V DC
Nominal capacity	100 Ah / 5.12 kWh
Usable energy	4.86 kWh at 95 % depth of discharge
Cycle life	>= 6000 cycles to 80 % of initial capacity
Continuous charge current	50 A
Continuous discharge current	100 A
Peak discharge current	150 A for 10 s
Operating voltage window	44.8 - 58.4 V DC
Communication	CAN 2.0B and RS-485, Modbus RTU
Parallel expansion	Up to 16 modules per string
Enclosure / form factor	IP20, 19 in 3U rack chassis
Operating temperature	-10 degC to +50 degC (charge), -20 degC to +60 degC (discharge)
Mass	46 kg

CERTIFICATIONS

UL 1973 - Stationary battery systems
IEC 62619 - Safety of industrial secondary lithium cells and batteries
UN 38.3 - Transport of lithium metal and lithium ion batteries
CE - EMC Directive 2014/30/EU
RoHS 3 - EU 2015/863

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