

48V 50Ah & 100Ah Lithium battery rack & system



- Modular design, up to 10 in parallel for capacity extension
- Built-in BMS, communication with power module via RS-485
- Life cycle : 8000 cycles at 25°C, 60% DoD
- Big discharging current design 75A(50Ah)/150A(100Ah)
- Finger proof design for external battery connector
- Flexible front and Rear installation
- Built-in breaker for safety operation
- Easy capacity extension by paralleled
- Aluminum case LiFeO4 for cells, more safety and stable
- Customer-made protocol upgrade support

Rack Mounted Lithium Battery Pack Selection Guide

MODEL		LIO 4805	LIO 4810
CAPACITY		2400Wh	4800Wh
PARAMETERS			
Nominal Voltage		48VDC	
Full Charge Voltage (FC)		52.5VDC	
Full Discharge Voltage (FD)		34.5VDC	
Typical Capacity		50Ah	100Ah
Max Continuous Discharging Current		75A	150A
Max Peak Discharging Current		100A	150A
Battery Connector Max current		75A	75A+75A
Protection		BMS, Breaker	
Charge Voltage		52.5 ± 0.1V	
Maximum Charge Current		50A (0.5C)	100 A (0.5C)
Standard Charge Method		0.2C CC (Constant current) charge to FC, CV (Contstant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance		<20m ohm	
PHYSICAL			
Dimension, D x W x H (mm)		676 x 438 x 86	676 x 438 x 129
Net Weight (kgs)		31.6	44.8
INDICATORS			
LED		Battery Status, Battery level, Battery fault, Alarm	
ENVIRONMENT			
Operating Environment	Charge	0°C~50 °C	
	Discharge	0°C~50 °C	
Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)		< 18 months: -20°C~25 °C	
		< 3 months: 25°C~45 °C	
		< 1 months: 45°C~60 °C	
		20°C ± 5 °C is the recommended storage temperature	
MANAGEMENT			
Communication		RS485 port (RJ45), extension port (RJ11)	
Certifications		UN38.3, IEC 62619	
Design Life		>10 years @ 25 °c	
Lifecycle		> 4500 @ 25 °C	

Product specifications are subject to change without further notice