

# Lithium battery rack & system

48V 50Ah & 100Ah



## Technical Features:

- 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	
<b>PARAMETERS</b>				
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 (Constant voltage FC) charge till charge current decline to <0.05C			
Inner Resistance	<20m ohm			
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	630x 438 x 86		630x 438 x 133	
Net Weight (kgs)	28.2		48.5	
<b>INDICATORS</b>				
LED	Battery Status, Battery level, Battery fault, Alarm			
<b>ENVIRONMENT</b>				
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			
<b>MANAGEMENT</b>				
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



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