Alpha·ESS

DATASHEET

STORION POWERPLUG 48V & POWERPLUG PLUS



- Plug & Play
- Modular
- Safety

Type	PowerPlug	Powerplug Plus
Dimension (W x D x H)	600 x 600 x 990 mm	600 x 600 x 1390 mm
Max. Modules	4	6
Color	Black	
IP Protection Class	IP20	
Cabinet Standards	ANSI EIA, RS-310-D, IEC297-2, DIN41491, PART1, DIN41494, PART7	

Battery Module

Physical			
Model	M4860	M48100	M48112-P
System Weight	Approx. 40 kg	Approx. 63 kg	Approx. 63 kg
Dimension (W x D x H)	482 x 460 x 156 mm	482 x 580 x 158 mm	482 x 580 x 158 mm
Battery Type	$LiFePO_4$ (LFP)	$LiFePO_4$ (LFP)	$LiFePO_4$ (LFP)
Cell Manufacturer	LISHEN Power Your Life!	EVE	EVE
Protection Level	IP20	IP20	IP20
Electrical			
Energy Capacity	3.0 kWh	4.8kWh	5.38 kWh
Usable Capacity	2.7 kWh	4.32kWh	4.84 kWh
DOD	90%	90%	90%
Nominal Voltage	51.2 V	48 V	48 V
Operation Voltage Range	44.8 ~ 58.4 V	46 - 54 V	46 - 54 V
Internal Resistance	≤ 50 mΩ	≤30 mΩ	≤30 mΩ
Cycle Life	≥ 8000	≥6000	≥6000
Communication	CAN and RS485 compatible		
Standards	UN38.3, IEC62619		
Operation			
Max. Charge Current	30 A (0.5C)	50A (0.5C)	56A (0.5C)
Max. Discharge Current	30 A (0.5C)	50A (0.5C)	56A (0.5C)
Max. Discharge Current (OFF-GRID)	60 A (1C)	100A (1C)	56A (0.5C)
Power Consumption	< 2 W	< 2 W	< 2 W
Operating Temperature Range	0℃ ~ 40℃	0℃ ~ 40℃	-10℃ ~ 50℃
Transport or Storage Temperature Range	-10℃ ~ 45℃	-10℃ ~ 45℃	-20℃ ~ 45℃
Humidity	15% ~ 85%	15% ~ 85%	15% ~ 85%
Warranty			
Product Warranty	5 Years		
Performance Warranty	10 Years		

* Only discharge when the temperature is below zero, Decrease power output when the temperature is above 40°C

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