

LiFe Battery System 48-100

LiFe Battery System Energy Storage System



Compact Size &
Lightweight



Stable & Safe
(LiFePO₄)



150 A Discharge
Current



Fast Charging
(LiFePO₄)



ESS Module	LiFe Battery System 48-100
Battery Cell Technology	Lithium Iron Phosphate
Maximum No. of Modules	Up to 10 Units (50 kWh)
Rated Capacity	100 Ah
Nominal Voltage	51.2 V
Operating Voltage	38 V ~ 56 V
Full Discharge Voltage	42 V
Discharge Efficiency	90 %
Protection Technology	Battery Management System (BMS)
Charging Current	100 A; 30 A (recommended)
Maximum Charge Voltage	56 V
Inner Resistance	≤ 20 mΩ
Standard Charge Method	0.2C Constant Current charge to Float Charging, Constant Voltage charge till charge current decline to < 0.05C
Battery Life Cycles	8000 Cycles: for 60 % Depth of Discharge (DoD) at 1C discharging current and 0.2C recharging current with > 50 % capacity.* 2000 Cycles: for 90 % DoD at 1C discharging current and 0.2C recharging current with > 80 % capacity.* (*Compared to original capacity)
Operation Temperatur	0°C - 50°C; 10°C ~ 35°C for optimal life cycles
IP Protection	IP20 (Only indoors)

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Store Solar Energy
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Power Back-Up if AC fails
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Save Money & Resources

Linear Back-Up Times

Load	One Module	Two Modules	Three Modules	Four Modules
2.5 kW	110 min	220 min	330 min	440 min
5 kW	55 min	110 min	165 min	220 min
10 kW	28 min	55 min	83 min	110 min



ESS Module	LiFe Battery System 48-100			
Applicable Inverter Rating	≤ 5.6 kW			
Number of Modules	1	2	3	4
Usable Energy	5 kWh	10 kWh	15 kWh	20 kWh
Rated Discharging Current	150 A			
Peak Discharging Current	192 A, for 1 min			
Dimensions (D x W x H) in mm	185 x 540 x 420	185 x 540 x 840	185 x 540 x 1 260	185 x 540 x 1 680
With stand feet (mm)	185 x 540 x 530	185 x 540 x 950	185 x 540 x 1 370	185 x 540 x 1 790
Net Weight (kg)	48	96	144	192



ESS Module with PDU	LiFe Battery System 48-100		
Applicable Inverter Rating	6 - 15kW		
Number of Modules	2	3	4
Usable Energy	10 kWh	15 kWh	20 kWh
Rated Discharging Current	300 A		
Peak Discharging Current	384 A, for 1 min		
Dimensions (D x W x H) in mm	185 x 540 x 1 000	185 x 540 x 1 420	185 x 540 x 1 840
With stand feet	185 x 540 x 1 110	185 x 540 x 1 530	185 x 540 x 1 950
Net Weight (kg)	102.3	150.3	198.3