



MESS-6K-01LP1

Low Voltage LiFePo4 Battery

5.12kWh-20.48kWh

An efficient, safe, and intelligent home energy storage solution, featuring a convenient modular battery design and integrated inverter.

Seamlessly switch between power sources, remotely control your energy needs, and customize intelligent operating plans.



FEATURES :



Unique Design

Modular space saving design



High Efficiency

High voltage technology



Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



LED Display

SOC, Battery Status



Easy Installation

Easy to transport and install



Flexible & Upgradeable

Suitable for back-up systems

Battery

ML 100-51.2E01

Battery Chemistry	LithiumIronPhosphate (LiFePO4)			
Cycle Life	≥6000(@25°C, 0.5C/0.5C)			
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Number of Batteries	1	2	3	4
Dimension (W x H x D)	640x875x210mm	640x1250x210mm	640x1625x210mm	640x2000x210mm
Battery Voltage	51.2V			
Voltage Range	46.4V~56.16V			
Max. Charging/Discharging Current @sec 10	100A			
Recommend charging/discharging current	50A			

Inverter Selection

Inverter P/N	MHSI-3~6K-03LP1			
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Input (PV)

	MHSI-3K-03LP1	MHSI-4K-03LP1	MHSI-5K-03LP1	MHSI-6K-03LP1
Max. PV Input Power	4.5kW	6kW	7.5kW	9kW
Max. PV Input Voltage	600V			
Start-up Voltage	100V			
MPPT Voltage Range	100V ~ 550V			
Number of MPP Trackers /String per MPPT	2 / 1			
Max. PV Input Current	16A			
Max. Short Circuit Current per MPPT	24A			

Output (AC)

Rated Output Power	3kW	4kW	5kW	6kW
Max. Output Power	3.3kVA	4.4kVA	5.5kVA	6kVA
Max. Output Current	15A	20A	22.7A	26.1A
Rated Voltage	230V			
Rated Frequency	50Hz/60Hz			
THDi(@RatedPower)	<3%			
Power Factor	0.8 leading ~ 0.8 lagging			

Output (EPS)

Max. Output Power	3kVA	4kVA	5kVA	6kVA
Max. Output Current	15A	20A	22.7A	30A
Peak Output Power, Time	4.5kW, 10s	6kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz			
THDv(@RatedPower)	<3%			
Switch Time	<10ms			

Efficiency

Max. Efficiency	97.5%
EU Efficiency	97.2%
Max. Battery Charge/Discharge Efficiency	95%

Protection

Protection	DC Reverse Polarity Protection, Insulation Resistance Monitoring, Ground Fault Monitoring, Over Current / Over Voltage Protection, Battery Soft Start Protection
AFCI Protection	Optional
Surge Protection	Type II

General Data

Operating Temperature Range	-10°C ~ +45°C
Self-consumption	< 10W
Protection Degree	IP65
Relative Humidity	0 ~ 100%
Display	LCD
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth
Max. Operating Altitude	4000m
Noise	≤25dB
Cooling Method	Natural