

Residential BESS

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 & Upgradable
Suitable for back-up systems

Battery		HOMESTACK-L-XD36				
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)					
Cycle Llfe	≥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)	640 x 875 x 210 mm	640 x 1250 x 210 mm	640 x 1625 x 210 mm	640 x 2000 x 210 mm		
Battery Voltage	51.2V					
Voltage Range	44.8V ~ 56.16V					
Max. Charging/Discharging Current	100A					
Inverter Selection						
Inverter P/N	XD3KTL XD3K6TL	XD3KTL XD3K6TL XD4KTL XD4K6TL XD5KTL	XD3KTL XD3K6TL XD4KTL XD4K6TL XD5KTL XD6KTL	XD3KTL XD3K6TL XD4KTL XD4K6TL XD5KTL XD6KTL		
Input (PV)	XD3KTL	XD3K6TL	XD4KTL	XD4K6TL	XD5KTL	XD6KTL
Max. PV Input Power	4.5kW	5.4kW	6kW	6.9kW	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	3.68kW	4kW	4.6kW	5kW	6kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.6kVA	5.5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	26.1A
Rated Voltage	230V					
Rated Frequency	50Hz / 60Hz					
THDi(@Rated Power)	< 3%					
Power Factor	0.8 leading ~ 0.8 lagging					
Output (EPS)						
Max. Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	30A
Peak Output Power, Time	4.5kW, 10s	5.5kW, 10s	6kW, 10s	6.9kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz					
THDv(@Rated Power)	< 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					



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