

NEW

3-Ph Blue Residential ESS

All In One Energy Storage System
CATL Battery Solutions



CATL LFP Battery, Stable and safe
Module, pack, system, triple protection



Adjustable power in each phase
Support diesel generator control(DI/DO)



Modular design, Plug and play
Mobile APP Monitoring



Supporting 200% oversized PV power
On&OFF Grid parallel system

Battery Model		Blue-PACK5.1	
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	50A/80A
Weight	54KG	Rated DC power	4096W
Dimension (W x H x D)	540*490*240mm	Max. Charge/Discharge Power	2825W/4096W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	Humidity	0~95% (No condensation)
Electrical		BMS	
Energy Capacity	5.12kwh	Modules Connection	Max.8
Usable Capacity	4.6kwh	Capacity	200/400/600/800Ah
Depth of Discharge (DoD)	90%	Power Consumption	<2W
Nominal Voltage	51.2V	Communication	CAN & RS485
DC Circuit Breaker	125A	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Operating Voltage Range	44.8-56.5V	Certificate	
Internal Resistance	<20mΩ	Safety(Cell)	Pack: IEC/EN 62619;UN38.3
Cycle Life	10000cycle		Cell: IEC/EN 62619;UN38.3;UL1973



Hybrid Inverter Model	E8KT	E10KT	E12KT
PV String Input			
Max. Continuous PV Input Power	16kW	20kW	20kW
Max. DC Voltage		1100V	
Nominal Voltage		720V	
MPPT Voltage Range		140V-1000V	
MPPT Voltage Range (Full Load)	380V-850V	420V-850V	480V-850V
Start Voltage ¹		200V	
Number of MPPT		2	
Strings Per MPPT		1	
Max. Input Current Per MPPT		15A	
Max. Short-circuit Current Per MPPT		20A	
AC Output (Grid)			
Nominal AC Output Power	8kW	10kW	12kW
Max. AC Apparent Power	8.8kVA	11kVA	13.2kVA
Nominal AC Voltage		400Vac	
AC Grid Frequency Range		50 / 60Hz±5Hz	
Nominal Output Current	11.6A	14.5A	17.4A
Max. Output Current	12.8A	16A	19.2A
Power Factor (cosΦ)		0.8leading-0.8lagging *	
THDi		< 3%	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage	51.2V	51.2V	51.2V
Charging Voltage Range		44-58V	
Max. Charging Current	160A	160A	160A
Max. Discharging Current	160A	200A	200A
Battery Capacity		200/400/600/800Ah	
AC Output (Backup)			
Nominal AC Output Power	7.36kW	9.2kW	9.2kW
Max. AC Output Power	8kVA	10kVA	10kVA
Nominal Output Current	10.7A	13.3A	13.3A
Max. Output Current	11.6A	14.5A	14.5A
Nominal Output Voltage		400V	
Nominal Output Frequency		50/60Hz	
Output THDv (@Linear Load)		<2% (Linear Load)	
Efficiency			
Max. PV Efficiency		97.60%	
Euro. PV Efficiency		97.00%	
Protection			
Anti-islanding Protection		Yes	
Output Over Current Protection		Yes	
DC Reverse Polarity Protection		Yes	
String Fault Detection		Yes	
AC/DC Surge Protection		DC Type II; AC Type III	
Insulation Detection		Yes	
AC Short Circuit Protection		Yes	
General Specifications			
Dimensions W x H x D		540*980*240mm	
Weight		49kg	
Operating Temperature Range		-25°C~+60°C	
Cooling Type		Natural Convection	
Max. Operation Altitude		2000m	
Operation Humidity		0~95% (No Condensation)	
IP Class		IP65	
Topology		Battery Isolation	
Communication		RS485/CAN2.0/WIFI/4G	
Display		LCD/APP	

* 0.95leading-0.95lagging for Germany. 1. Minimum voltage for inverter to start power output.

KSTAR

Stock code: 002518

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