

# Guard Plus Residential ESS

## All-in-One Energy Storage System

Single Phase 3.6kW 5kW

-  **Safety & Reliability**  
CATL LFP cells and pack; 51.2V low voltage pack, High safety for home users
-  **Cold Climate**  
Heating film supports battery charging under extreme weather
-  **Easy Installation**  
58kg battery module
-  **UPS & Peak shaving Function**  
Battery priority/peak shaving work mode
-  **Online Monitoring**  
24/7 hours online monitoring



Battery Model		GUARD PLUS-PACK5.1			
Performance		General Specification			
Energy Capacity	5.12kwh	Max. Charge/Discharge Current	50A/80A	Cooling	Natural convection
Usable Capacity	4.6kwh	Rated DC power	4096W	Noise emission	< 25db
Depth of Discharge (DoD)	90%	Max. Charge/Discharge Power	2825W/4096W	Max. operating altitude	< 2000m
Nominal Voltage	51.2V	Operating Temperature Range	0 to 50 °C charging -10 to 50 °C discharging	Display	SOC status indicator
DC Circuit Breaker	125A	Humidity	0-95% (No condensation)	Installation	Floor stand(standard), Wall mount(optional)
Operating Voltage Range	44.8-56.5V	Capacity	100-400Ah	Scalability	Max. 4 battery packs in parallel operation for single phase system; Max. 8 battery packs in parallel operation for 3 phase system;
Internal Resistance	<20mΩ	Power Consumption	<2W	Compatible inverters	Guard Plus 3680E/5000E, Guard Plus 8KH3/10KH3/12KH3
Cycle Life	10,000cycle	Communication	CAN & RS485	<b>Standard Compliance(more available upon request)</b>	
Battery type	LiFePO4	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement	Certificates	CE, EMC, IEC62619, UN38.3, UL1973
System Weight	54KG				
Dimension (W x D x H)	540*490*240				
IP Protection	IP65				
Warranty	5 Years Product Warranty, 10 Years Performance Warranty				