

# Panda

## Residential Three-phase Energy Storage System Panda Series Panda 8000T~15kT-10HS~60HS



Panda 8000T~15kT-10HS~60HS  
Technical parameters



Inverter



Battery



The Lithium Iron Phosphate (LFP) cell secures safe and reliable operation.



The automatic isolation of the faulty battery module secures smooth system operation.



The module adopted enables variable capacity range of 10~60 kWh.



The switching time between on-off grid less than 10 ms secures Uninterruptable Power Supply for the load.



The APP-based remote monitoring offers easy maintenance and unlimited function expansion.



The built-in Smart Grid Management module enables power grid dispatching.



The Degree of Protection at IP66 makes it suitable for various harsh environments for application.

### Residential Energy Storage Application Scenarios: Energy Storage + X

- The residential energy storage system addresses stable power demand and offers functions such as leveraging price differentials between peak and off-peak hours to reduce electricity costs and enhance the self-consumption rate of photovoltaic power generation. It serves as an integrated solution tailored for household scenarios.
- The core of the residential energy storage system is the battery pack, BMS, and energy storage inverter, which is paired with household PV to form a residential photovoltaic energy storage system, mainly including the battery pack, BMS, hybrid PCS, and PV modules.
- Residential energy storage is developing rapidly in the European market. Europe's higher level of electricity prices combined with peak and valley price differentials, as well as the incentive policy and declining energy storage cell prices, contribute to the favorable economic viability of residential energy storage.



Residential Energy Storage



Residential Photovoltaic Energy Storage



Residential Photovoltaic Energy Storage and Charging



Residential Photovoltaic Energy Savings



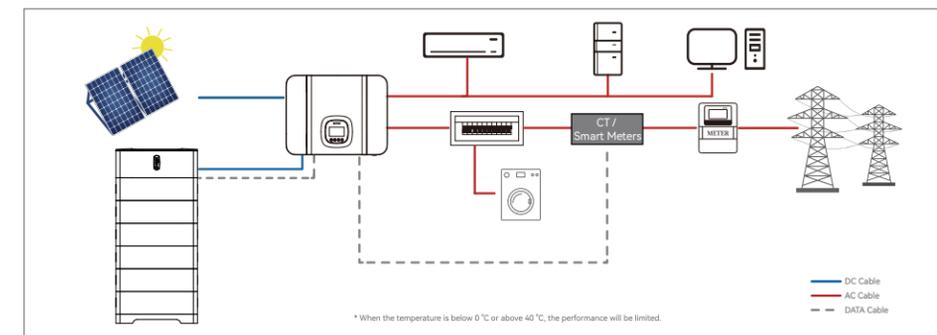
Residential Photovoltaic Energy Storage Heat Pump



System Specification				
Nominal Output Power	8000 W	10 kW	12 kW	15 kW
Capacity Range	10~60 kWh			
Usable Capacity Range	9~54 kWh			
Battery Chemistry	LFP (LiFePO4)			
IP Protection	IP66 (Outdoor)			

Inverter Technical Specification				
Model	Venus 8000-T1	Venus 10K-T1	Venus 12K-T1	Venus 15K-T1
Phase	Three Phase			
Max. PV Input Voltage	1000 V			
MPPT Voltage Range	160 V ~ 1000 V			
Max. PV Input Current	16 A		20 A	
Max. PV Input Power	12 kW	15 kW	26 kW	
Number of Independent MPPT	2			
Start-up Voltage Range	180 V			
Battery Voltage Range	180 V ~ 710 V			
Max. Charging/Discharging Current	30 A			
Max. Charging/Discharging Power	8 kW	10 kW	12 kW	
Nominal Output Voltage on Grid	400V			
Output Voltage Range on Grid	320 V ~ 480 V			
Nominal Output Frequency on Grid	50 Hz / 60 Hz			
Rated Grid Output Frequency on Grid	45~55Hz / 55~65Hz (comply with local regulations)			
Max. AC output Power	8.8 kW	11 kW	13.2 kW	16.5 kW
Communication	RS485/WIFI/4G(optional)			
Display	LED+bluetooth+APP			
Dimension(W*H*D) mm	420 x 520 x226			
Certification	NBT32004, IEC62109, IEC61727, IEC61683, IEC62116, Italy CEI 0-21, Germany VDE4105, EN62109-1/-2, EN62920, EN61000-6-1/-3, EN50549-1, VDE4105, UK G99/G100			

Battery Technical Specification	
Module Model	Limestone 10HS~Limestone 60HS
Number of modules	4~12
Module Capacity	10 kWh~60 kWh
Nominal Voltage	204.8 V~614.4 V
Max. Operating Current	25 A
Operating Temperature Range	-20 ~ +50 °C
Certification	IEC62619, IEC63056, EN IEC61000-6-1, IEC61000-6-3, EN IEC62040-1, EN IEC62477-1, IEC60529 IP66, UN38.3, MSDS, RoHS(2011/65/EU+2015/863), WEEE(2012/19/EU), ISTA



Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.