



6KW 8KW 11KW Hybrid Inverters 51.2V 200Ah For Various Battery Types

Basic Information

- Place of Origin: China
- Brand Name: TP
- Certification: CE UN38.3 ROHS MSDS FCC
- Model Number: SKAE
- Minimum Order Quantity: 15 units
- Price: consult prices online
- Packaging Details: consult prices online
- Payment Terms: T/T









Product Specification

- Rated Output Power: 6KW, 8KW, 11KW
- Battery Capacity: 51.2V/200Ah (10.24kWh For 6KW), (15.36kWh For 8KW/11KW)
- Max Charge Current: 150A
- Nominal PV Input Voltage: 360Vdc
- Efficiency: 92%
- Operating Temperature: -10°C ~ +50°C
- Highlight: **6kw hybrid inverters, 11kw hybrid inverters, 6kw mppt solar charge controller**

Product Description

Intelligent Battery Management for Various Battery Types Hybrid Inverters

 Smart WIFI monitor, user friendly.	 Integrated with inverter, MPPT charger, AC charger, LiFePo4 battery inside.	 6000 Cycles LiFePo4 cells, 10+ years life design.
 Smart BMS for communication and all around protection.	 Modular & stacked design for easy expansion and installation.	 Easy installation, configurable of work mode and charge current.

Product Description

The ALPHA ESS Energy Solar System is a highly efficient and reliable energy storage solution designed to provide sustainable power for residential and commercial applications. With an integrated hybrid MPPT inverter and built-in LiFePo4 battery, this energy storage system ensures maximum power generation from solar panels while storing excess energy for later use. The system is equipped with advanced features such as a smart BMS for enhanced battery management, modular and stackable designs for easy installation and expansion, and a user-friendly Wi-Fi monitoring system for remote operation. With a life cycle of over 6000 cycles, this system guarantees long-lasting performance and durability, meeting the high standards of modern energy demands.

SPECIFICATION	ALPHA ESS 6K/10KWh	ALPHA ESS 8K/15KWh	ALPHA ESS 11K/15KWh
INVERTER /CHARGER			
Inverter Type	Hybrid MPPT Inverter		
Rated Output Power	6KW	8KW	11KW
Output Voltage Waveform	Pure Sine Wave		
Output Voltage	230VAC 50HZ		
Low DC Warning Voltage	45.8Vdc		
Low DC Cut-off Voltage	44.8Vdc		
Low DC Warning Return Voltage	46.8Vdc		
Total Charging Current(Grid+solar)	120AMax	150A Max	150A Max
Bulk Charging Voltage	57.6Vdo		
Float Charging Voltage	56.0Vdc		
LITHIUM IR ON BATTERY			
NormalBatteryModular	51.2V200Ah	51.2V300Ah	51.2V300Ah
NormalCapacity(25°C,0.2C)	10.24KWh	15.36KWh	15.36KWh
NominalBatteryVoltage	51.2Vdc	51.2Vdo	51.2Vdo
NominalCapacity	200Ah	300Ah	300Ah
Max.ChargeCurrent	225A 1Sec.	300A 1Sec.	300A 1Sec.
Max.DischargeCurrent	150A	200A	200A
OperationVoltageRange	44.8Vdc 58.4Vdc		
OperationTemperature	-10°C~+50°C		

AC INPUT	
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac±7(UPS),90Vac±7(Appliances)
Low Loss Return Voltage	180Vac±7(UPS),100Vac±7(Appliances)
High Loss Voltage	280Vac±7
High Loss Return Voltage	270Vac±7
Max.AC Input Voltage	300Vac
Nominal Input Frequency	50HZ/60HZ(Auto detection)
AC Charging Current	120A Max. 150A Max. 150A Max.
SOLAR INPUT	
Nominal PV Voltage	360Vdc
PVArray MPPT Voltage Range	120Vdc~450Vdc
Max.PVAmay Open Crcuit Voltage	500Vdc
Solar Charging Current	120A Max. 150A Max. 150A Max.
PROTECTION	
Protection	Over charge protection,Over discharge protection,Over currentprotection, Shortcircuit protection,Over temperature protection
AMBIENT	
Noise(dB)	<55dB (1 meter)
Working Temperature	-10°C~+50°C

Humidity	0~95%(no condensation)
Sea Level(m)	≤1500
OTHERS	
Efficiency	92.0%
Warranty	1 Year for Inverter,3 Years for Lithium Battery

Application

This energy storage system is ideal for:
 Residential homes seeking reliable backup power
 Commercial facilities aiming to reduce electricity costs through solar energy
 Off-grid locations that need a stable and continuous power supply
 Sustainable energy solutions in remote or rural areas
 Backup systems for critical infrastructure during outages

Shipping Methods

Supports global air and sea shipping.



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