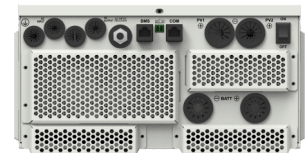


Overview

The brand new KP series is an inverter/charger that supports utility charging, oil generator charging, solar charging, utility bypass, inverter output, and smart energy management. It supports parallel operation for multiple units in single phase or three phase. The inverter with power of 3.5KW and 5.5KW perfectly suits residential applications, schools, health facilities, government buildings, and areas where the electricity is unstable.

Features

- Applicable for pure off grid / backup power / self-consumption
- PV input voltage range: 80Vdc-500Vdc
- PV input current up to 32A
- Supports battery mode & non battery mode
- Battery&PV reverse polarity protection
- Pure sine wave output
- Supports single-phase or three-phase parallel operation (up to 16 units)
- Independent BMS communication interface
- Isolated RS485 interface: Connects with Bluetooth, WiFi, 4G, etc.
- Optional 320 x 480 high-resolution color LCD screen or monochrome screen
- Historical data recording function, storage capacity of 25000 records
- Comprehensive electronic protection ensures safer and more stable operation
- IP20 enclosure design with anti-dust kit



Technical Specifications

Model	KP3542-AH0650P20PS/C	KP3542-AH0650P20NS/C	KP5542-AH0650P20PD/C	KP5542-AH1050P20ND/C	KP5542-AH0650P20PS/C	KP5542-AH1050P20NS/C
Utility Input						
Utility Input Voltage	176VAC~264VAC (Default), 90VAC~285VAC (Configurable)					
Utility Input Frequency	45Hz~65Hz					
Max. Utility Charging Current	60A		100A			
Switch Response Time	Inverter to Utility: 10ms Utility to Inverter: 20ms					
Inverter Output						
Inverter Rated Power (@30°C)	3500W		5500W			
3-second Transient Surge Output Power	7000W		8500W			
Inverter Output Voltage	220/230VAC					
Inverter Frequency	50/60Hz					
Output Voltage Waveform	Pure sine wave					
Load Power Factor	0.2~1(VA ≤ Rated output power)					
THDv (@linear load)	≤3%					
Max. Load Efficiency	92%					
Max. Inverter Efficiency	94%					
Parallel Function	YES	NO	YES	NO	YES	NO
PV Input						
PV Max. Open-Circuit Voltage	500V					
MPPT Voltage Range	85~400V					
Number of MPPTs	1		2		1	
Max. Input Current	16A		16A+16A		16A	
PV Max. Input Power	4000W		6000W		5000W	
PV Max. Charging Current	60A		100A		100A	
MPPT Max. Efficiency	≥99.5%					
Battery						
Battery Rated Voltage	48VDC					
Battery Work Voltage Range	43.2VDC~64VDC					
Battery Max. Charging Current	60A		100A			
Others						
No-load Losses	<0.8A		<1.1A			
Standby Current	<0.6A		<0.8A			
Communication with BMS	RS485					
Communication with Portal	RS485 (4G/WiFi/Bluetooth)					
Parallel Function	Yes, Standard 12 units, Up to 16 units					
Work Temperature Range	-20°C~+50°C (>30°C Derating)					
Storage Temperature Range	-25°C~+60°C					
Enclosure	IP20 (With anti-dust kit)					
Relative Humidity	< 95% (N.C.)					
Altitude	4000m (>2000m Derating)					
Certifications and Standards	IEC 62109-1, IEC 62109-2, IEC 61683, IEC 62368					
Mechanical Parameters						
Dimension (Length x Width x Height)	534mm x 300mm x 163mm		590mm x 300mm x 163mm			
Mounting size (Length x Width)	512mm x 245mm		568mm x 245mm			
Mounting hole size	Φ9mm/Φ10mm					
Net Weight	12.2Kg		15.5Kg		14.7Kg, 14.8Kg, 14.2Kg	