

Overview

The brand new Kirin series is an inverter/charger that supports utility charging, oil generator charging, solar charging, dual output from utility or inverter, multiple operating modes, 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
- Dual pure sine wave output
- Supports single-phase or three-phase parallel operation (up to 16 units)
- Sleep mode triggered by low power output or low battery voltage
- 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









Techn	ical	Spe	cifi	cati	ons

Model	KR3522-1250P20C	KR3542-0650P20C	KR5542-1050P20C	KR6042-1250P20C			
Utility Input							
Utility Input Voltage	17	76VAC to 264VAC (Default), 9	0VAC to 285VAC (Configurabl	e)			
Utility Input Frequency	45Hz ~ 65Hz						
Max. Utility Charging Current	110A	110A 60A 100A					
Switch Response Time	Switch Response Time – Inverter to Utility: 10ms Switch Response Time – Utility to Inverter (when the load power is higher than 100W): 20ms						
Inverter output							
Inverter Rated Power (@30°C)	3500W	3500W	5500W	6000W			
-second Transient Surge Output Power	7000W	7000W	8500W	12000W			
Inverter Output Voltage		220/230	VAC±3%	1			
Inverter Frequency	50/60Hz±0.2%						
Output Voltage Waveform	Pure sine wave						
Load Power Factor	0.2−1 (VA ≤ Rated output power)						
THDv (@linear load)	≤3% (24V resistive load) ≤3% (48V resistive load) ≤3% (48V resistive load)						
Max. Load Efficiency	92%						
Max. Inverter Efficiency	94%						
Max. Main Load	3500W	3500W	5500W	6000W			
Max. Second Load	3500W	3500W	5500W	6000W			
Main Output Cut-Off Voltage	5500 **			000077			
Second Output Cut-Off Voltage	Equal to "UVW (Under Voltage Warning Voltage)"						
	Equal to "LVD (Low Voltage Disconnect Voltage)" Equal to "LVR (Low Voltage Reconnect Voltage)"						
Dual Output Recovery Voltage		Equal to LVR (LOW Volte	age Reconnect voltage)				
Solar controller							
PV Max. Open-Circuit Voltage	500V (At minimum operating environment temperature) 440V (At 25°C)						
MPPT Voltage Range			450V	1			
Number of MPPTs	1	1	2	2			
Max. Input Current	One way, 16A/way	One way, 16A/way	Two ways, 2x16A	Two ways, 2x16A			
PV Max. Short-Circuit Current	One way, 18A/way	One way, 18A/way	Two ways, 2x18A	Two ways, 2x18A			
PV Max. Input Power	4200W	4200W	2×3300W	8000W			
PV Max. Charging Current	120A	60A	100A	120A			
MPPT Max. Efficiency	≥99.5%						
Battery							
Battery Rated Voltage	24VDC		48VDC				
Battery Work Voltage Range	20.4VDC ~ 32.0VDC		40.8VDC ~ 64.0VDC				
Battery Max. Charging Current	120A	60A	100A	120A			
Others							
	≤1.5A	≪0.8A	≤1.1A	≤1.1A			
No-load Losses	Test condition: Utility, PV and Load are disconnected, AC output is ON, fan stops, @24V input		ind Load are disconnected, n stops, @48V input	Test condition: Utility, PV and Load are disconnected, AC output is ON, fan stops, @48V in			
	≤1.1A	≪0.6A	≤0.8A	≤0.8A			
Standby Current	Test condition: Utility, PV and Load are disconnected, AC output is OFF, fan stops, @24V input	Test condition: Utility, PV a	and Load are disconnected, In stops, @48V input	Test condition: Utility, PV and Load are disconnected, AC output is OFF, fan stops, @48V in			
Communication with BMS	RS485						
Communication with Portal	RS485						
Parallel Function	Yes, Standard 12 units, Up to 16 units						
Work Temperature Range	-20°C to +50°C (When the environment temperature exceeds 30°C, the actual output power is reduced appropriately)						
Storage Temperature Range		•		· · · ·			
Enclosure	-25°C ~ +60°C IP20 (With anti-dust kit)						
Relative Humidity	< 95% (N.C.)						
Altitude Certifications and Standards	<4000M (If the altitude exceeds 2000 meters, the actual output power is reduced appropriately) IEC 62109-1, IEC 62109-2, IEC 61683, IEC 62368 IEC 62109-1. IEC 62109-2. IEC 61683						
L ARTITICATIONS and Standards	IEC 6210	17-1, IEC 02107-2, IEC 61683, IE	02300	IEC 62109-1, IEC 62109-2, IEC 61			
Mechanical parameters				=			
Mechanical parameters Dimension (Length x Width x Height)	590mm × 300mm × 165mm		590mm × 300mm × 165mm				
Mechanical parameters	590mm × 300mm × 165mm 568mm × 245mm	512mm × 245mm	590mm × 300mm × 165mm 568mm × 245mm Ф10mm	590mm × 300mm × 165m 568mm × 245mm			

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