

OFF-Grid Rack Mounted Solar Inverter



Feature

- 1) Adopt standard 3U rack structure design, especially suitable for use with lithium batteries
- 2) Pure sine wave output, can meet the use of various types of loads
- 3> The maximum PV open circuit voltage is 450V, when the energy is sufficient, it can be loaded without the battery
- 4) Built-in MPPT solar controller
- 5) With multi-mode setting function, the priority level of photovoltaic, utility power and battery can be selected and set through the LCD screen
- 6) It has a wide range of mains input voltage, which can be selected through LCD to meet different power requirements

- 7 With battery over-discharge, overload protection, over-temperature protection, short-circuit protection and other protection functions
- 8) When the battery is discharged and the inverter is turned off, the inverter will automatically turn on when the photovoltaic or mains power is restored.
- 9) With cold start function; support USB, RS485 monitoring function
- 10> WIFI intelligent monitoring function, support mobile APP to view various data (optional)

Product Introduction

The Smart HRT series inverters are designed with a standard 3U rack-mounted structure, which is easy to use with lithium battery packs and saves space. The inverter is a pure sine wave solar inverter control integrated machine; the controller adopts advanced MPPT calculation method and intelligent battery management to ensure maximum energy acquisition, with a wide PV input range, when the energy is sufficient It can be loaded without the battery; at the

same time, it adopts high-frequency design, which has the advantages of high-power density, simple operation, high efficiency of the whole machine, and low no-load loss. It integrates the functions of solar energy, mains power and battery 3 in 1 to provide a steady supply of energy for lighting, computers, TVs and other household appliances and power tools, as well as small-power industrial electrical equipment.

SMART HRT 3K/5KVA Series

Specifcations

MODEL	Smart HRT 3024	Smart HRT 3048	Smart HRT5048
Rated Capacity	3000V	4/3000W	5000VA/5000W
NPUT			
nput Format		L+N+PE	
Rated input voltage	208/220/230/240VAC		
Voltage Range	170~280VAC(For Personal computers); 90~280VAC(For Home Appliances)		
requency Range	50Hz/60Hz(Auto sensing)		
DUTPUT		()	<i>3</i> ,
Output Format	L+N+PE		
Rated output voltage	208/220/230/240VAC ± 5%		
Output frequency	50/60Hz ± 0.1%		
Vaveform	Pure sine wave		
Transfer Time	10ms(For Personal computers), 10ms(For Home Appliances)		
Peak Power	6000VA	6000VA	10000VA
Overload Capacity		1min@102%~110% Loa	ad
Battery Mode)	10s@110%~130%Load 3s@130%~150% Load		
		200ms@>150% Load	
Peak Efficiency (Battery Mode)	>93%	>94%	>94%
BATTERY		1	
Rated voltage	24 VDC	1	8 VDC
<u>-</u>	24 VDC	40 000	
Constant voltage charging voltage (can be set)	28 . 2 VDC	56.4 VDC	
Float charging voltage (can	071/00	_	
pe set)	27 VDC 54 VDC		
SOLAR CHARGER & AC	CHARGER		
Solar Charger	MPPT	MPPT	MPPT
PV maximum input power	4000W	4000W	5500W
MPPT tracking range	120~430 VDC	120~430 VDC	120~430 VDC
Maximum PV input voltage	450 VDC	450 VDC	450 VDC
Maximum PV Charge			
Current	80 A	80 A	80 A
Maximum mains charging	60 A	60 A	80 A
current Maximum charging current	80 A	80 A	80 A
Communication Interface	00 A	1 00 /	50 A
RS232	5PIN/Pitch2.0mm, baud rate 2400		
Expansion slot	2×5PIN/Pitch2.54mm, Lithium battery BMS communication card, WIFI card, dry con		
communication interface	card, etc.		
Parallel interface	No parallel		With parallel
Environmental Parameters			
Operating ambient temperature	0~40℃		
Operating environment	20%~95% (Non-condensing)		
humidity Storage temperature			
Storage temperature	−15~60°C		
Altitude	Altitude should not exceed 1000m, derating above 1000m, maximum 4000m, refer to IEC62040		
Noise			
Physical parameters		3000b	
D × W × H(mm)		105 × 100 × 100 E	
Weight (net weight)	405 × 483 × 133.5		
vveigni (net weignt)	7kg	7kg	7 . 8kg