

RT- HY SERIES 3.6/4.5/6.5KW

ON/OFF GRID HYBRID INVETER

140A
MAX PV
CHARGING

PURE
SINE WAVE

WORKS



WITH AND WITHOUT
BATTERY



BUILT IN

ANTI DUST

KIT



Working mode

- ☒ off grid
- ☒ on grid

RGB lighting for different working mode

- RGB automatically switches with the working mode of the inverter:

Red-Battery Mode

Blue-Utility Mode

Purple-PV Mode

Battery mode: red;

Utility mode: blue;

PV mode: purple;

Features

Pure sine wave solar inverter(on/off Grid)

Output power factor 1.0

WIFI&GPRS available for IOS and Android

Inverter running without battery

One-click restoration to factory Settings

Built-in 120A(for 3.6KW/6.5KW)/140A(for 4.5KW)

MPPT (Max 6500W) solar charge

High PV input voltage range(90~500VDC)

Built-in anti-dusk kit for harsh environment

Smart battery charge design to optimize battery life

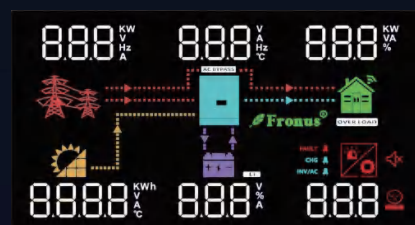
Built-in Lithium battery automatic activation

WIFI & GPRS available for Ios and Andriod

LCD Display



WIFI-APP



LCD DISPLAY

Product Data Sheet

MODEL	RT-HY3.6KW-24P1	RT-HY4.5KW-24P1	RT-HY6.5KW-48P1
Phase	1-phase		
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W	4500W	6500W
Maximum Solar Charging Current	120A	140A	120A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	200/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	97%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	30A	30A	40A
Nominal operating frequency	50/60Hz		
Surge power	7200VA	9000VA	13000VA
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	24VDC	24VDC	48VDC
Output Waveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	24VDC	48VDC
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A		
GENERAL			
PHYSICAL			
Dimension,D x W x H(mm)	420*310*110		
Net Weight(kgs)	10	11	11
INTERFACE			
Communication Port	RS232/WIFI/BMS		
ENVIRONMENT			
Humidity	0~90%		
Operating Temperature	-10to50℃		