

# RT- HY SERIES 10.2KW

ON/OFF GRID HYBRID INVETER

**160A**  
MAX PV  
CHARGING

**PURE**  
SINE WAVE

**WORKS**  
WITH AND WITHOUT  
BATTERY

**UPGRADED**  
MPPT

**LI-ION**

**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  
nverter running without battery  
One-key restoration to factory Settings  
Built\_in Lithium battery automatic activation

Built-in 160A MPPT solar charger  
High PV input voltage range(90~450VDC)  
Built-in anti-dusk kit for harsh environment  
Smart battery charge design to optimize battery life  
Dual output  
Touch button

## WIFI & GPRS available for ios and Andriod   LCD Display



WIFI-APP



LCD DISPLAY

## Product Data Sheet

MODEL	RT-HY10.2KW-48P1
Phase	1-phase
Maximum PV Input Power	10200W
Rated Output Power	10200W/10200VA
Maximum Solar Charging Current	160A
<b>GRID-TIE OPERATION</b>	
<b>PV Input(DC)</b>	
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
<b>GRID OUTPUT(AC)</b>	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	195~253VAC
Nominal Output Current	44 3A
Power Factor	>0.99
Feed-in Grid Frequency Range	49~51±1Hz
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency(DC/AC)	98%
<b>TWO LOAD OUTPUT POWER</b>	
Full Load	11000W
Maximum Main Load	11000W
Maximum Second Load(battery mode)	3666W
Main Load Cut Off Voltage	44VDC
Main Load Return Voltage	52VDC
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Maximum AC Input Current	50A
Nominal operating frequency	50/60Hz
Surge power	22000W
<b>PV INPUT(DC)</b>	
Maximum DC Voltage	500VDC
MPPT Voltage Range	90VDC~450VDC
Number of MPPT Trackers/Maximum Input Current	1/27A
<b>BATTERY MODE OUTPUT(AC)</b>	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency(DC to AC)	94%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48VDC
Maximum Solar Charging Current	160A
Maximum AC Charging Current	140A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension,D X W X H(mm)	420*310*110
Cartoon Dimension,D X W XH(mm)	588*463*205
Net Weight(kgs)	14.5
Gross Weight(kgs)	16 0
<b>INTERFACE</b>	
Communication Port	RS232/WIFI/Remove LCD/GPRS
<b>ENVIRONMENT</b>	
Operating Temperature	-10 ~50℃