



## >>> Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WFI&GPRS available for IOS and Android
- Inverter running without battery
- One-click 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-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Touch button



## »» Product Data Sheet

MODEL	RT-HY 8.2KW	RT-HY 10.2KW
Maximum PV Input Power	8200W	10200W
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	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	35.6A	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	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery mode)	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC
Main Load Return Voltage	48VDC	48VDC
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	280VAC or 170-280VAC	
Maximum AC Input Current	40A	50A
Nominal operating frequency	50/60Hz	
Surge power	16400W	20400W
<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	48VDC	48VDC
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	48VDC	48VDC
Maximum Solar Charging Current	160A	160A
Maximum AC Charging Current	140A	160A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension,D x W x H(mm)	555*405*135	
Cartoon Dimension,D X W XH(mm)	620*465*215	
Dimensions of mounting holes(mm)	255- Ø 5x2	
Net Weight(kgs)	14.2	14.5
Gross Weight(kgs)	15.7	16.0
<b>INTERFACE</b>		
Communication Port	RS232/ WIFI/Remove LCD/GPRS	
<b>ENVIRONMENT</b>		
Operating Temperature	-10 ~50°C	