



»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger (for 8.2kw,10.2kw)
- Dual communication ports for Battery communication and Wifi communication
- High PV input voltage range(90~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Dual PV input
- Touch button
- On Off Grid Work Mode

»» Product Data Sheet

MODEL	RT-HY 8.2KW	RT-HY 10.2KW
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC / AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Second Load Range	1640W~5740W	2040W~7140W
Maximum Load Cut Off Voltage	52VDC	
Maximum Load Return Voltage	54VDC	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
Frequency Range	50±1Hz/60±1Hz	
Maximum AC input Current	48.2A	60A
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Wave Form	Pure sine wave	
Efficiency (DC to AC)	94%	
BATTERY&CHARGER		
Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Sotar+AC Charging Current	160A	
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
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	48.2A	60A
Maximum Charging Current	140A	
GENERAL		
PHYSICAL		
Dimension ,H*W*D(mm)	500*390*136	
Cartoon Dimension ,H*W*D(mm)	588*463*265	
Net Weight (kgs)	14.5	14.7
Gross Weight(kgs)	16.1	16.2
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃~50℃	
STANDARD		
Compliance Safety	CE	