

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;



Wi-Fi optional

Features

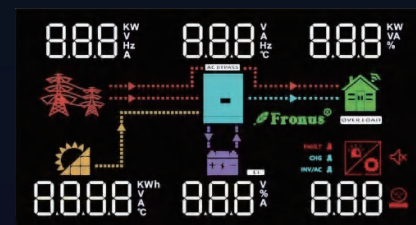
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter running without battery
- One-click restoration to factory Settings

- Built-in 120A(for 3.6KW/6.2KW)/140A(for 4.2KW)
- 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°C		



RT- HY SERIES 7.5/8.5/11KW

ON/OFF GRID HYBRID INVETER

**160A
MAX PV
CHARGING**

**PURE
SINE WAVE**

**WORKS
WITH AND WITHOUT
BATTERY**

**BUILT IN
ANTI DUST
KIT**

**UPGRADED
MPPT**

LI-ION



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;



Wi-Fi optional

Features

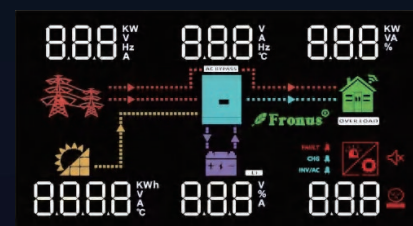
Pure sine wave solar inverter(on/off Grid)
Output power factor 1.0
WIFI&GPRS available for IOS and Android
nverter running without battery
One-key restoration to factory Settings
Built_in Lithium battery automatic activation

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-HY7.5KW-48P1	RT-HY8.5KW-48P1	RT-HY11KW-48P1
Phase	1-phase		
Maximum PV Input Power	7500W	8500W	11000W
Rated Output Power	7500W/7500VA	8500W/8500VA	11000W/11000VA
Maximum Solar Charging Current	160A	160A	160A
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	220/230/240VAC		
Output Voltage Range	195~253VAC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	7500W	8500W	11000W
Maximum Main Load	7500W	8500W	11000W
Maximum Second Load(battery mode)	2500W	2833W	3666W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	52VDC	52VDC	52VDC
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	40A	40A	50A
Nominal operating frequency	50/60Hz		
Surge power	15000W	17000W	22000W
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	220/230/240VAC		
Output Waveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Current	160A	160A	160A
Maximum AC Charging Current	140A	140A	140A
GENERAL			
PHYSICAL			
Dimension,D X W X H(mm)	420*310*110		
Cartoon Dimension,D X W XH(mm)	588*463*205		
Net Weight(kgs)	13.1	14.2	14.5
Gross Weight(kgs)	14.1	15.7	16.0
INTERFACE			
Communication Port	RS232/ WIFI/Remove LCD/GPRS		
ENVIRONMENT			
Operating Temperature	-10 ~50°C		