

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

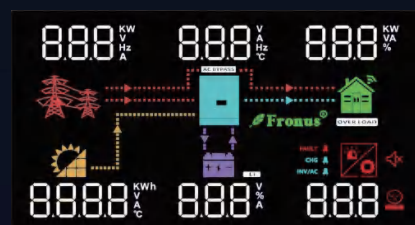
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter running without battery
- One-click restoration to factory Settings

- Built-in 120A(for 3.6KW/6.2KW)/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



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

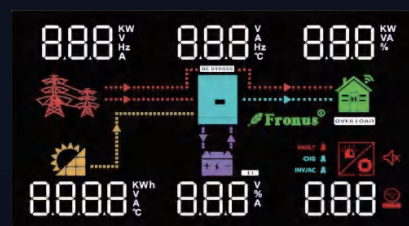
Pure sine wave solar inverter(on/off Grid)
Output power factor 1.0
WIFI&GPRS available for IOS and Android
nverter running without battery
One-key restoration to factory Settings
Built_in Lithium battery automatic activation

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-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 | | |