

RT-HY SERIES 5.0KW-48V/P

HYBRID SOLAR INVERTER

Specification

Model	RT-HY 5.0KW-48V/P
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 6000W
MPPT Range@Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	80
Max AC Charge Current (A)	80
Max. Charge Current (PV + AC) (A)	80
Battery	
Rated Voltage (VDC)	48
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	9.7
Gross Weight(kg)	11
Dimensions (W*H*D)	510x306x140mm
Max. Operating Altitude	4000m (Derating above 1000m)



Built-in 80A Solar Charger



Wide PV Input Voltage Range 120-500V



Workable with Generator

DUAL

Dual AC Output



9 Inverters in Parallel

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation



Detachable Dust Cover

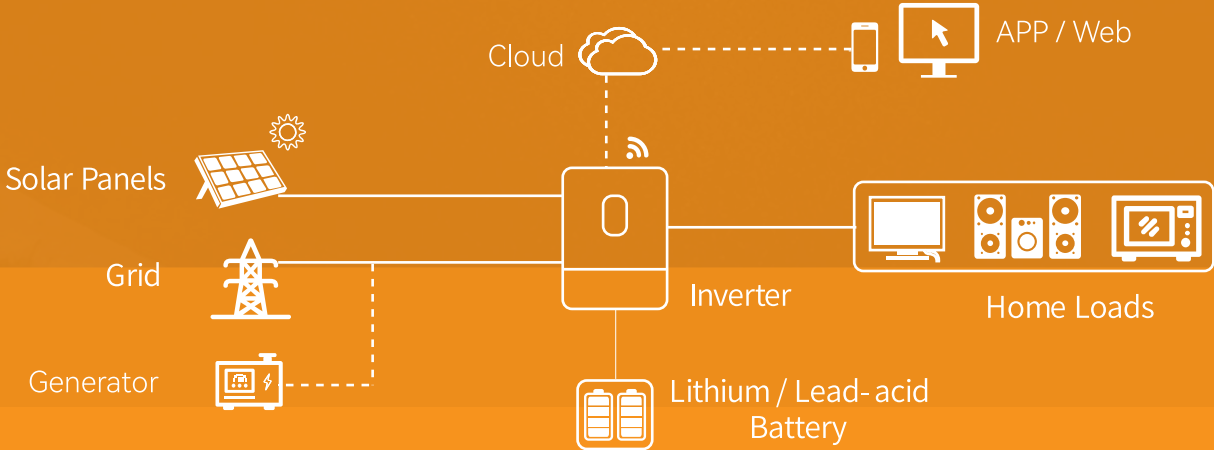


Feed-in to Grid



WiFi Monitoring(optional)

System Diagram



RT-HY SERIES 6.5KW-48V/P

HYBRID SOLAR INVERTER

Specifications

Model	RT-HY 6.5KW-48V/P
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~120%; 10S@ > 120%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	8.8
Gross Weight(kg)	9.8
Dimensions (W*H*D)	440*335*117mm
Max. Operating Altitude	4000m (Derating above 1000m)



Built-in 120A Solar Charger



Wide PV Input Voltage Range 60-500V



27A MAX PV Input

DUAL

Dual AC Out



9 Inverters in Parallel



Workable with Generator

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation

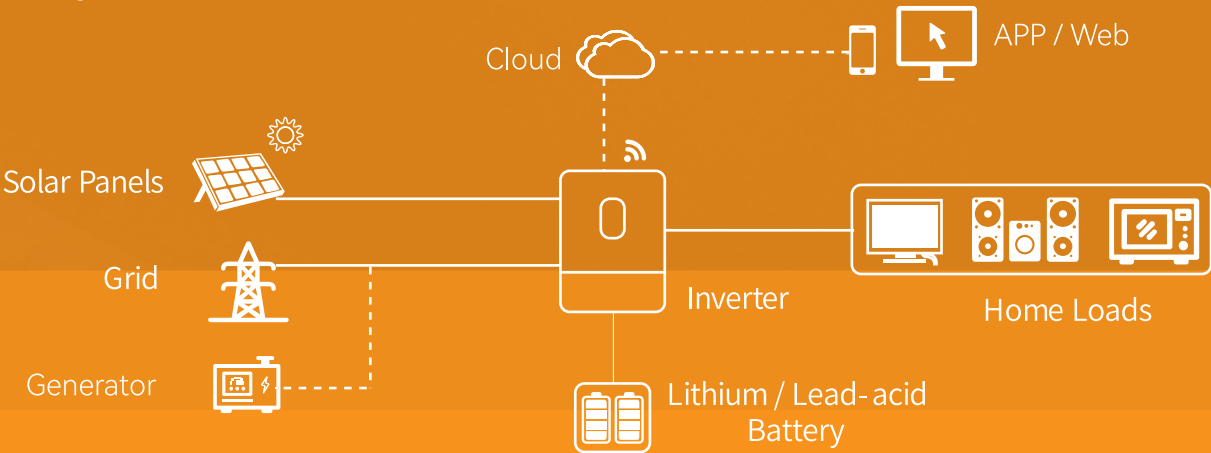


Feed-in to Grid



WiFi Monitoring(optional)

System Diagram



RT-HY SERIES 12KW-48V/P

HYBRID SOLAR INVERTER

Specifications

Model	RT-HY 12KW-48V/P
AC Input	
Rated Input Voltage (VAC)	220/230/240; L+N+PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50/60(Auto Adaptive)
AC Output	
Rated Capacity (kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~125%Load 10s@ > 125%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	6
Charger (PV / AC)	
Solar Charger Type	Dual MPPTs
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~60℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃~60℃
Net Weight (kg)	14.7
Gross Weight(kg)	16.7
Dimensions (H*W*D)	525x435x138mm
Max. Operating Altitude	4000m(Derating above 1000m)

