

Features:

- Cold Start function
- Output Power Factor is 1.0
- With WIFI function optional
- Auto restart while AC is recovering
- It can work with or without battery
- Pure Sine Wave MPPT Solar Inverter
- With Touch Button on the LCD display
- With high PV input voltage range(120-500VDC)
- With 100A MPPT Solar Charge Controller built-in
- Smart battery charger and management for optimized battery performance



TECHNICAL SPECIFICATIONS

Model	SOLAR-IN HY 1 KW	SOLAR-IN HY 5 KW
Input	220VAC	220VAC
Input Voltage Range	175-285VAC±5V	154-264VAC±5V
Input Frequency	50/60Hz±5%	50/60Hz±5%
Capacity	1.2KVA	5KVA
AC Output Voltage	220V±10%	220V±10%
AC Output Frequency	50/60Hz±5%	50/60Hz±5%
Inv Output Voltage	220VAC±10%	220VAC±10%
Inv Output Frequency	50HZ or 60HZ±1%	50HZ or 60HZ±1%
Waveform	Pure Sine Wave	Pure Sine Wave
Battery Type	Lead acid battery	Lead acid battery
Battery Voltage	12VDC	48VDC
Battery Charging Voltage	13.75VDC	54VDC
Maximum PV Array Power	800W	3200W
PV Input Voltage Range(PWM controller)	15-30VDC	60-150VDC
Maximum PV display open circuit voltage	30V	150V
Maximum solar charging current	PWM 60A	MPPT 100A
Maximum AC charging current	15A	21A
Battery charging voltage range	154-280VAC	154-280VAC
Transfer Time	≤10ms (UPS mode) /≤20ms (INV mode)	≤10ms (UPS mode) /≤20ms (INV mode)
Peak load ratio	(MAX) 3:1	(MAX) 3:1
Operating Temperature	0°C~40°C	0°C~40°C
Storage Temperature	-15°C~45°C	-15°C~45°C
Relative Temperature	-10°C~90°C non-condensing	-10°C~90°C non-condensing
Voice	<45dB	<45dB
Carton Dimension	370*327*185	595*402*210
Net Weight(KG)	18.8	21.3
Gross Weight(KG)	15.7	22.2



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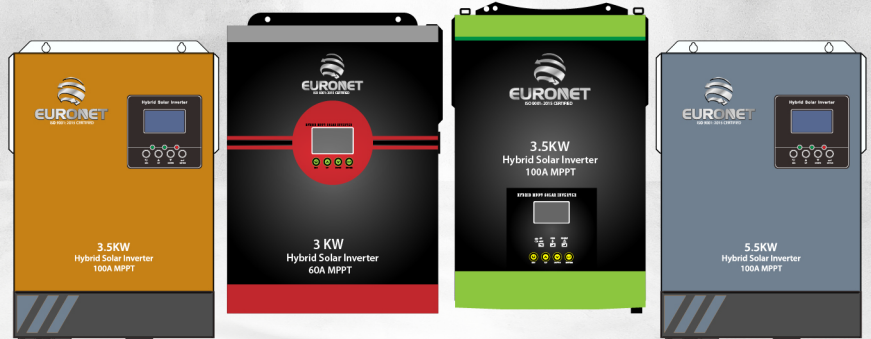
TECHNICAL SPECIFICATIONS

Model	SOLAR-IN HY 3.5KW	SOLAR-IN HY 5.5KW
The rated power	3500VA/3500W	5500VA/5500W
INPUT		
Voltage	230VAC	230VAC
Selectable Voltage Range	170-280VAC (UPS),90-280VAC (Appliances)	170-280VAC (UPS),90-280VAC (Appliances)
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)
OUTPUT		
AC Voltage Regulation (Batt. Model)	230VAC ± 5%	230VAC ± 5%
Surge Power	7000VA	11000VA
Power factor	1.0	1.0
Efficiency(Peak)	> 90%	> 90%
Transfer Time	10ms (UPS), 20ms (Appliances)	10ms (UPS), 20ms (Appliances)
Wave form	Pure sine wave	Pure sine wave
No load current	1.0A	1.1A
BATTERY		
Battery voltage	24VDC	48VDC
Low battery alarming voltage	22.0VDC	44.0VDC
Low battery cut off protection voltage	21VDC	42VDC
Low battery recovery voltage	23.0VDC	46.0VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	32VDC	64VDC
MPPT SOLAR CHARGER & AC CHARGER		
Maximum PV Array Power	5000W	6000W
MPPT Range Operation Vol	120-450VDC	120-450VDC
Maximum PV Array Open Circuit Vol.	500VDC	500VDC
Number of MPPT trackers / Max output current	100A	100A
Maximum AC Charge Current	60A	60A
Maximum Charge Current	100A	100A
Maximum Efficiency	98%	98%
BEST PANEL CONFIGURATION		
Maximum PV Array Power	5000W	6000W
Best Panel configuration	300Wp*9pcs*36V(2700Wp)*2Parallel	330Wp*9pcs*36V(2970Wp)*2Parallel
PHYSICAL		
Products Dimension, D*W*H(mm)	481mm*313mm*117mm	481mm*313mm*117mm
Packing size, D*W*H(mm)	543mm*394mm*204mm	543mm*394mm*204mm
Net Weight (kgs)	9.8Kg	10.5Kg
G.W. kg	11.2Kg	11.8Kg
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	5% to 95% Relative Humidity (Non-condensing)
Operation Temperature	0°C-50	0°C-50



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TECHNICAL SPECIFICATIONS

Model	SOLAR-IN HY 3KW	SOLAR-IN HY 3.5KW	SOLAR-IN HY 5.5KW
The rated power	3000VA/3000W	3500VA/3500W	5500VA/5500W
INPUT			
Voltage	230VAC	230VAC	230VAC
Selectable Voltage Range	170-280VAC (UPS),90-280VAC (Appliances)	170-280VAC (UPS),90-280VAC (Appliances)	170-280VAC (UPS),90-280VAC (Appliances)
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)
OUTPUT			
AC Voltage Regulation (Batt. Model)		230VAC ± 5%	
Surge Power	6000VA	7000VA	11000VA
Power factor	1.0	1.0	1.0
Efficiency(Peak)	> 90%	> 90%	> 90%
Transfer Time	10ms (UPS), 20ms (Appliances)	10ms (UPS), 20ms (Appliances)	10ms (UPS), 20ms (Appliances)
Wave form	Pure sine wave	Pure sine wave	Pure sine wave
No load current	1.0A	1.0A	1.1A
BATTERY			
Battery voltage	24VDC	24VDC	48VDC
Low battery alarming voltage	22.0VDC	22.0VDC	44.0VDC
Low battery cut off protection voltage	21VDC	21VDC	42VDC
Low battery recovery voltage	23.0VDC	23.0VDC	46.0VDC
Floating Charge Voltage	27VDC	27VDC	54VDC
Overcharge Protection	32VDC	32VDC	64VDC
MPPT SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power	4000W	5000W	6000W
MPPT Range Operation Vol	120-450VDC	120-450VDC	120-450VDC
Maximum PV Array Open Circuit Vol.	500VDC	500VDC	500VDC
Number of MPPT trackers / Max output current	100A	100A	100A
Maximum AC Charge Current	60A	60A	60A
Maximum Charge Current	100A	100A	100A
Maximum Efficiency	98%	98%	98%
BEST PANEL CONFIGURATION			
Maximum PV Array Power	4000W	5000W	6000W
Best Panel configuration	300Wp*9pcs*36V(2700Wp)*2Parallel	300Wp*9pcs*36V(2700Wp)*2Parallel	330Wp*9pcs*36V(2970Wp)*2Parallel
PHYSICAL		PHYSICAL	
Products Dimension, D*W*H(mm)	481mm*313mm*117mm	481mm*313mm*117mm	481mm*313mm*117mm
Packing size, D*W*H(mm)	543mm*394mm*204mm	543mm*394mm*204mm	543mm*394mm*204mm
Net Weight (kgs)	9.8Kg	9.8Kg	10.5Kg
G.W. kg	11.2Kg	11.2Kg	11.8Kg
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)	5% to 95% Relative Humidity (Non-condensing)	5% to 95% Relative Humidity (Non-condensing)
Operation Temperature	0°C-50	0°C-50	0°C-50