



Hybrid Inverter 3000W
Hybrid Inverter 4000W
Hybrid Inverter 5000W
Hybrid Inverter 10000W

HYBRID INVERTER



Hybrid Inverter 3000W



Hybrid Inverter 4000W

Hybrid Inverter 5000W

Hybrid Inverter 10000W

Features

- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control

MODEL	Hybrid Inverter 3000W	Hybrid Inverter 4000W	Hybrid Inverter 5000W	Hybrid Inverter 10000W
RATED OUTPUT POWER	3000 W	4000 W	5000 W	10000 W
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 580 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	280 VDC ~ 500 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10 A	2 / 2 x 18.6A
GRID OUTPUT (AC)				
Nominal Output Voltage	208/220/230/240 VAC	202/208/220/230/240 VAC	208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*	184-264.5 VAC*	184 - 265 VAC*	184 - 265 VAC* per phase
Nominal Output Current	13 A	17.5 A	21 A	14.5A per phase
Power Factor	> 0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	96%			
European Efficiency@ Vnominal	95%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC			120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC			170 - 280 VAC per phase
Maximum AC Input Current	30 A	40 A	40 A	
PV INPUT (DC)				
Maximum DC Voltage	500 VDC	580 VDC	900 VDC	900 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	280 VDC ~ 500 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	202/208/220/230/240 VAC	202/208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave			
Efficiency (DC to AC)	93%	91%	93%	91%
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 580 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	280 VDC ~ 500 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
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GRID OUTPUT (AC)				
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Output Voltage Range	184 - 264.5 VAC*			184 - 264.5 VAC* per phase
Nominal Output Current	13 A	17.5 A	21 A	14.5 A per phase
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC			170 - 280 VAC per phase
Maximum AC Input Current	30 A	40A	40 A	
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	202/208/220/230/240 VAC	202/208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	93%	91%	93%	91%
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)	80 A	Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	107 x 438 x 480	117 x 438 x 535	204.2 x 460 x 600	167.5 x 500 x 622
Net Weight (kgs)	15.5	16.2	29	45
INTERFACE				
Communication Port	RS-232/USB	USB/Dry contact	RS-232/USB	
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available			
ENVIRONMENT				
Humidity	0 ~ 90% RH (Non-Condensing)			
Operating Temperature	0 to 40°C	0 to 40°C	-10 to 55°C	
Altitude	0 ~ 1000 m**			

*This figure may vary depending on different AC voltage. **Power derating 1% every 100 m when altitude is over 1000m.

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