PRODUCT



SOLARWATT Inverter
vision three 1.1
(three phase version)

Powerful three-phase hybrid inverter for larger households and advanced energy applications.

- Three-phase hybrid inverter with power classes from 5 kW to 15 kW
- 3 MPP trackers for PV – 200% PV oversizing
- Designed to work in tandem with SOLARWATT Battery vision
- Network integration via LAN or WIFI
- Easy installation via Bluetooth (PV HUB 2.0) and display
- Suitable for indoor and outdoor installation
- Regular online updates
- High level Solarwatt safety
- Exclusive BMW design

In cooperation with

CERTIFICATIONS AND STANDARDS

EN 62109-1:2010
EN 62109-2:2011
EN 61000-6-2
EN 61000-6-3
EN IEC 63000:2019
AS/NZS 4777.2:2024

Grid codes: AS4777.2 Australia A, B, C

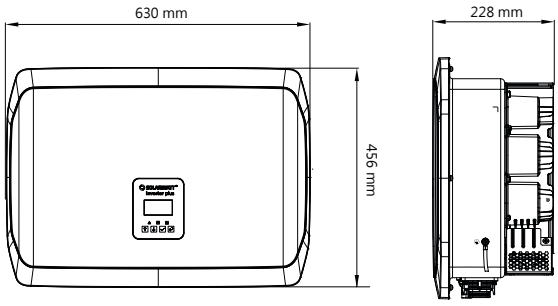
SERVICE

Warranty[1)]
12 years product warranty

PV HUB 2.0
smart monitoring & fast fault diagnosis

Sales & Service
support available from the local team

DIMENSIONS



1) The SOLARWATT Inverter Warranty Policy – Australia and New Zealand apply.
Please note: this datasheet only applies to Australia and New Zealand.

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INVERTER VISION THREE 1.1	(5.0 kW)	(6.0 kW)	(8.0 kW)	(9.9 kW)	(10.0 kW)	(12.0 kW)	(15.0 kW)
ELECTRICAL CHARACTERISTICS BATTERY							
Battery type				Li-Ion			
Battery voltage range				100-800 V			
Recommended battery voltage				100 V			
Min. battery voltage@full AC load	108 V	125 V	160 V	210 V	210 V	250 V	310 V
Max. charge/discharge current				50 A			
Communication interfaces				CAN			
INPUT PV							
Max. array power PV	11,000 W	14,000 W	18,000 W	20,000 W	20,000 W	24,000 W	30,000 W
Max. input power PV	11,000 W	13,200 W	17,600 W	18,000 W	18,000 W	22,500 W	22,500 W
Max. DC voltage				1,000 V[1]			
Nominal DC operating voltage				620 V			
Max. MPPT input current				20 A / 20 A / 20 A			
Max. MPPT short circuit current				25 A / 25 A / 25 A			
Max. MPPT input power				10,000 A / 10,000 A / 10,000 A			
Min. operating PV voltage				90 V[2]			
MPPT voltage range				120-950 V			
Start-up input voltage				140 V			
No. of MPP trackers				3			
Strings per MPP tracker				1 + 1 + 1			
OUTPUT AC							
Rated AC power	5,000 W	6,000 W	8,000 W	9,900 W	10,000 W	12,000 W	15,000 W
Rated output apparent power	5,000 VA	6,000 VA	8,000 VA	9,900 VA	10,000 VA	12,000 VA	15,000 VA
Max. apparent AC power	5,500 VA	6,600 VA	8,800 VA	9,900 VA	11,000 VA	13,200 VA	16,500 VA
Rated grid voltage (AC voltage range)				230/400 V, 3L/N/PE			
Rated grid frequency				50 Hz / 60 Hz			
Rated AC current (per phase)	7.2 A	8.7 A	11.6 A	14.3 A	14.5 A	17.4 A	21.7 A
Max. AC current (per phase)	8.0 A	9.6 A	12.8 A	14.3 A	15.9 A	19.1 A	23.9 A
Power factor				1 (adjustable from 0.8 leading to 0.8 lagging)			
THDi				<3 % @rated power			
INPUT AC							
Max. AC current (per phase)	9,1 A	10.9 A	14.5 A	18.2 A	18.2 A	21.8 A	24.2 A
Max. AC power	6,000 VA	7,200 VA	9,600 VA	12,000 VA	12,000 VA	14,400 VA	16,000 VA
Rated grid voltage (AC voltage range)				400/230 V, 3L/N/PE			
Rated grid frequency				50 Hz / 60 Hz			
BACKUP OUTPUT WITH BATTERY							
Nominal output power	5,000 W	6,000 W	8,000 W	10,000 W	10,000 W	12,000 W	15,000 W
Max. EPS power	5,000 VA	6,000 VA	8,000 VA	10,000 VA	10,000 VA	12,000 VA	15,000 VA
Rated output voltage				400/230 V; 380/220 V, 3L/N/PE			
EPS frequency				50 Hz / 60 Hz			
Rated EPS current (per phase)	7.2 A	8.7 A	11.6 A	14.5 A	14.5 A	17.4 A	21.7 A
Max. EPS current (per phase)	7.2 A	8.7 A	11.6 A	14.5 A	14.5 A	17.4 A	21.7 A
Power factor				1 (adjustable from 0.8 leading to 0.8 lagging)			
Switch time				<20 ms			
THDv				<3 % @linear load			
EFFICIENCY							
MPPT Efficiency inverter				99.9 %			
Euro Efficiency inverter				97.2 %			
Max. Efficiency inverter	97.3 %	97.7 %	97.7 %	97.9 %	97.9 %	97.9 %	97.9 %

GENERAL INFORMATION

Dimensions (WxHxD)	630 mm x 456 mm x 228 mm
Mass	33,5 kg
Installation	Wall mounted
Topology	Non-isolated
Cooling method	5.0 to 10.0 kW: natural, 12.0 to 15.0 kW: fan cooling
Noise emission	5.0 to 10.0 kW: < 40 dB, 12.0 to 15.0 kW: < 55 dB
Installation location	up to 4,000 m above sea level (derating exceeding 2.000 m)
Operating temperature	-25 °C to +60 °C (derating at +45°C)
Storage temperature	-40 °C to +70 °C
Relative humidity	≤ 100 % (outdoor)
IP rating	IP65
Standby consumption	20 W
Monitoring	Inverter: LC Display, PV HUB 2.0
Communication	LAN, Bluetooth, Wifi, RS485, USB
Manufacture	China

PROTECTION

Insulation monitoring	yes
Residual current monitoring	yes
DC reverse polarity protection	yes
Battery reverse protection	yes
Anti-islanding protection	Active frequency drift with positive feedback
AC short-circuit protection	yes
AC Overcurrent/ overvoltage protection	yes
Leakage current protection	yes
DC switch	GHX5-32P, 6 poles
Battery wake-up function	yes
Overvoltage category	AC Type III/ DC Type II
AC/DC overvoltage protection	AC: type II / DC: type II
Protection class	Class I
AFCI	yes

1 For 1000V system, PV Maximum operaing voltage is 950V.
2 The staring working voltage of the power supply is 90V.

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