PRODUCT



In cooperation with

SOLARWATT Inverter
vision one 1.1
(one phase version)

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

- Single-phase hybrid inverter with power classes from 7 kW to 10.5 kW
- Up to 4 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

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

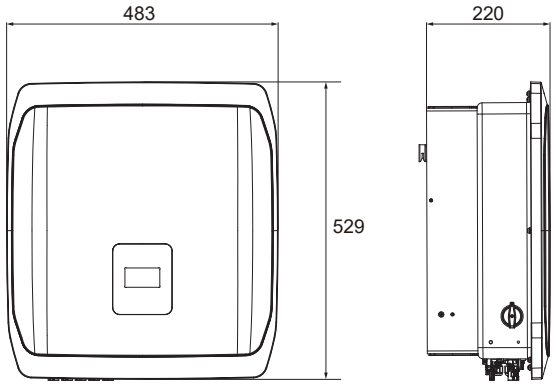
SERVICE

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 ONE 1.1	(7.0 kW)	(8.0 kW)	(9.0 kW)	(9.9 kW)	(10.0 kW)	(10.5 kW)
ELECTRICAL CHARACTERISTICS BATTERY						
Battery type	Li-Ion					
Battery voltage range	85-480 V					
Recommended battery voltage	300 V					
Max. charge current	50 A					
Max. discharge current	50 A					
Communication interfaces	CAN / RS485					
Reverse connect protection	yes					
INPUT PV						
Max. array power PV	15,000 W	16,000 W	18,000 W	20,000 W	20,000 W	21,000 W
Max. input power PV	10,500 W	12,000 W	13,500 W	15,000 W	15,000 W	15,000 W
Max. DC voltage	600 V					
Nominal DC operating voltage	360 V					
Max. MPPT input current	16 A / 16 A / 16 A			16 A / 16 A / 16 A/ 16 A		
Max. MPPT short circuit current	20 A / 20 A / 20 A			20 A / 20 A / 20 A/ 20 A		
Max. inverter backfeed current to the array	0					
MPPT voltage range	80 V to 500 V					
Start-up voltage	75 V					
No. of MPP trackers	3	3	4	4	4	4
Strings per MPP tracker	1					
OUTPUT AC						
Rated AC power	7,000 W	8,000 W	9,000 W	9,900 W	10,000 W	10,500 W
Rated apparent power	7,000 W	8,000 W	9,000 W	9,900 W	10,000 W	10,500 W
Max. apparent AC power	7,700 VA	8,800 VA	9,900 VA	9,900 VA	10,500 VA	10,500 VA
Rated grid voltage	230 V					
Rated grid frequency	50 Hz / 60 Hz					
Rated AC current	30.4 A	34.8 A	39.1 A	43.0 A	43.5 A	45.7 A
Max. AC current	33.5 A	38.3 A	43.0 A	43.0 A	45.7 A	45.7 A
Displacement power factor	0.8 leading to 0.8 lagging					
THDi	<3 % @rated power					
INPUT AC						
Max. AC current	60.9 A	63.0 A	63.0 A	63.0 A	63.0 A	63.0 A
Max. AC power	14,000 VA	14,500 VA	14,500 VA	14,500 VA	14,500 VA	14,500 VA
Rated grid voltage	230 V					
Rated grid frequency	50 Hz / 60 Hz					
BACKUP WITH BATTERY						
Max. apparent power	7,000 VA	8,000 VA	9,000 VA	9,900 VA	10,000 VA	10,500 VA
Rated apparent power	7,000 VA	8,000 VA	9,000 VA	9,900 VA	10,000 VA	10,500 VA
Rated apparent voltage	230 V					
Max. output current	30.4 A	34.8 A	39.1 A	43.0 A	43.5 A	45.7 A
Rated output current	30.4 A	34.8 A	39.1 A	43.0 A	43.5 A	45.7 A
Backup peak power (60s)	10,000 W	10,000 W	12,000 W	12,000 W	12,000 W	12,000 W
Switch time	<10 ms					
THDv	<2 % @linear load					
EFFICIENCY						
MPPT Efficiency inverter	99.9 %					
Euro Efficiency inverter	97.4 %					
Max. Efficiency inverter	97.8 %					
Max. battery charge efficiency (PV to BAT) (@full load)	98.5 %					
Max. battery discharge efficiency (BAT to AC) (@full load)	97.0 %					

INVERTER GENERAL INFORMATION

Dimensions (HxWxD)	529 mm x 483 mm x 220 mm
Weight	29.5 kg
Installation	Wall mounted
Topology	Non-isolated
Cooling method	Natural cooling
Noise emission	<30 db
Installation location	up to 2,000 m above sea level
Operating temperature	-25 °C to +60 °C (derating at +45°C)
Storage temperature	-40 °C to +70 °C
Relative humidity	≤ 95 % (no condensation)
IP rating	IP65
Standby consumption	< 15 W
Monitoring	Inverter: LC Display, PV HUB 2.0
Communication	LAN, Bluetooth, Wi-Fi, RS485, DRM, USB
Manufacture	China

SAFETY

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	PEDS150-HM55R-6, 6 layers
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

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