Smart Energy
Hot Water
For Australia

SMRT-HOT-WTR-48-S1

5
YEAR
WARRANTY

SMART ENERGY

Maximises self-consumption by storing excess solar energy as hot water

/ Seamless integration with all SolarEdge inverters, and the monitoring platform

/ Adjusts power supplied to the heater based on available PV power (up to 4.8 kW)

/ Built-in water tank power-consumption meter

/ Simple wall mount installation with an IP65 protection rating

/ Wireless communication with the inverter

/ Suitable for powering purely resistive loads only

/ Optional temperature sensor for optimised heating

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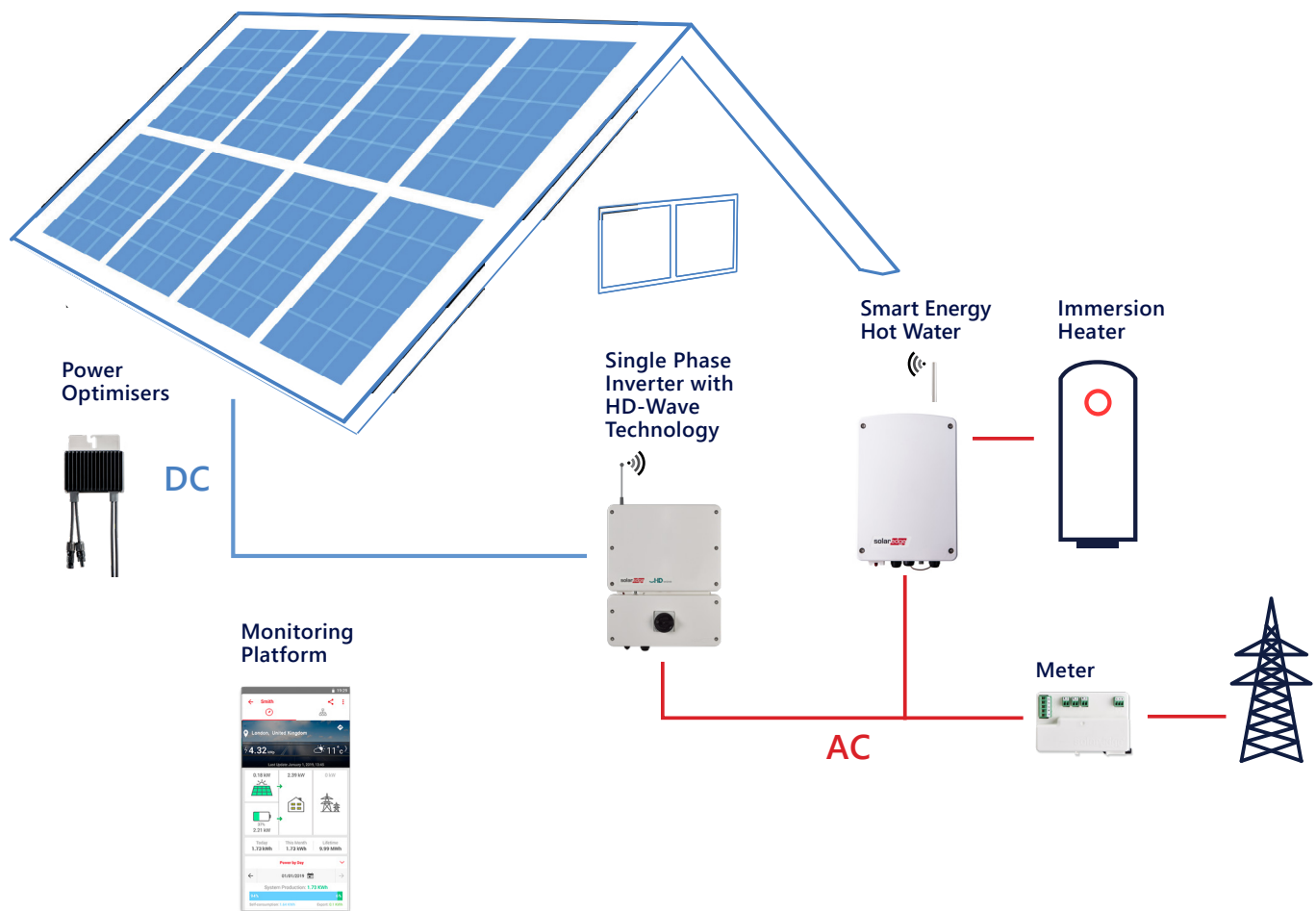|	SMRT-HOT-WTR-48-S1	UNIT
ELECTRICAL SERVICE		
Operating Voltage Range	207-264	Vac
AC Frequency	50	Hz
Nominal Voltage	230	Vac
Supported Grids	L / N / PE	
Maximum Supported Load Size	4.8	kW
Maximum Load Current Rating	21	A
Input Over voltage protection[1]	264	Vac
Minimum Output Power	5% of load rating	
Load Type	Resistive	
Efficiency	> 98	%
Output Over-current Protection	22	A
External Over-current Protective Device Rating	≥ 25	A
Type of Action	Type 1 C	
Over Voltage Category[2]	III	
COMMUNICATION		
Supported Communication Protocol	ZigBee Home Automation	
Device Configuration	Via SetApp, the inverter LCD or the monitoring platform / app	
Nominal Transmit Power	11.8	dBm
Operating Frequency Range	2.4 - 2.5	GHz
Bandwidth	2	MHz
Modulation	O-QPSK with DSSS coding	
Outdoor (LOS) Range	400 / 1312	m / ft
Indoor Range[3]	50 / 164	m / ft
EIRP with Antenna	16.8	dBm
Maximum Emitted Power	≤ 20	dBm
STANDARD COMPLIANCE		
Radio	ETSI EN 300 328 V 1.8.1, ETSI EN 301 489-1, ETSI EN 301 489-17	
Safety	IEC-60730 -1	
EMC	EN61000-6-1 2 3, EN61000-4-2 3 4 5 6 8 11	
INSTALLATION SPECIFICATIONS		
Dimensions (H x W x D)	375 x 240 x 110 / 14.7 x 9.5 x 4.5	mm / inch
Weight	5.3 / 11.7	kg / lb
Operating Temperature Range	-10 to +50 / 14 to 122	˚C / ˚F
Maximum distance between Device and Load/Cable cross section	3/10 for 13 AWG/2.5 mm² 20/65 for 11 AWG/4 mm²	m /ft
Terminal Block Minimum Wire Cross Section	1.5 / 15	mm² / AWG
Interfaces	1. AC in 2. AC out 3. External antenna, RP-SMA	
Conduits	Pre-drilled openings of 25 mm for 2 conduits	
Mounting Type	Wall mount	
Pollution Degree	3	
IP Rating	IP65	
SENSOR SPECIFICATIONS[4]		
Sensor type	Pt100 (100 Ohms @ 0°C) to IEC 751, Class B, 3/4 wire	
Construction	6.0mm diameter stem in 316 stainless steel	
Termination	IP67 aluminium alloy weatherproof connection head with 4 wire connection block, M20 x 1.5mm cable entry (gland included)	
Process connection	1/2"BSP parallel	
Probe temperature range	-100°C to +450°C (connection head @ 170°C)	
Probe Diameter	Ø6mm (1/4")	
Probe length	150mm 1/2"BSPP	

[1] The device stops diverting power to the load when this threshold is exceeded
[2] Working voltage of 300 Vac
[3] Approximate values. May differ depending on specific installation conditions
[4] Temperature sensor ordered separately. For more information please contact SolarEdge

/ SolarEdge System with Smart Energy Hot Water

For Australia

Power Optimisers

DC

Single Phase Inverter with HD-Wave Technology

Smart Energy Hot Water

Immersion Heater

Monitoring Platform

AC

Meter

Temperature Sensor[4]

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