SolarEdge Home Hot Water Controller

For Australia and New Zealand

SMRT-HOT-WTR-48-S2

SMART ENERGY

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

- Integrates seamlessly with the complete SolarEdge Home ecosystem, offering a single source for warranty, support and training, to streamline logistics & operations
- Automatically adjusts power supplied to the heater, using any amount of available PV power (up to 4.8kW)
- Wireless communication to the inverter using SolarEdge Home Network, reducing wiring, labour, and installation faults
- Built-in water tank power consumption meter
- Simple wall mount installation
- Suitable for powering purely resistive loads only
- Optional temperature sensor for optimised heating

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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
Input Overvoltage Protection(1)	264	Vac
Maximum Load Current Rating	21	A
Minimum Output Power	5% of load rating	
Load Type	Resistive	
Efficiency	> 98	%
Output Overcurrent Protection	22	A
External Overcurrent Protective Device Rating	≥ 25	A
Type of Action	Type 1 C	
Overvoltage Category(2)	III	
COMMUNICATION		
Supported Communication Protocol	SolarEdge Home Network	
Device Configuration	Monitoring platform/app or SetApp; Ethernet connection is required	
Operating Frequency Range	916 – 924 (AUS)	MHz
Modulation	O-QPSK (Quadrature phase shift keying)	
EIRP with Antenna	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	
Emissions	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	mm
Weight	5.3	kg
Operating Temperature Range	-10 to +50	˚C
Maximum Distance between Device and Load/Cable Cross-Section	3/10 for 2.5mm^2 20/65 for 4mm^2	mm^2
Terminal Block Minimum Wire Cross-Section	1.5 / 15	mm^2
Interfaces	1. AC in 2. AC out 3. External antenna RP SMA	
Conduits	Pre-drilled openings of 25mm for 2 conduits	
Mounting Type	Wall mount	
Pollution Degree	3	
IP Rating	IP65	
Self-Consumption	< 2.5	W
SENSOR SPECIFICATIONS(3)		
Sensor Type	Pt100 (100 Ohms @ 0°C) to IEC 751, Class B, ¾ wire	
Construction	6.0mm diameter stem in 316 stainless steel	
Termination	IP67 aluminum 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 (¼")	
Probe Length	150mm ½" BSPP	
Temperature Accuracy	1	%

(1) The device stops diverting power to the load when this threshold is exceeded.
(2) Working voltage of 300 Vac.
(3) Temperature sensor ordered separately. For more information, please contact SolarEdge.