Smart Energy Hot Water

SMRT-HOT-WTR-30-S1



SMART ENERGY

Maximizes 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 3.0kW)
- Built-in water tank power-consumption meter
- Simple wall mount installation
- / Wireless communication with the inverter
- Suitable for powering purely resistive loads only
- Optional temperature sensor for optimized heating



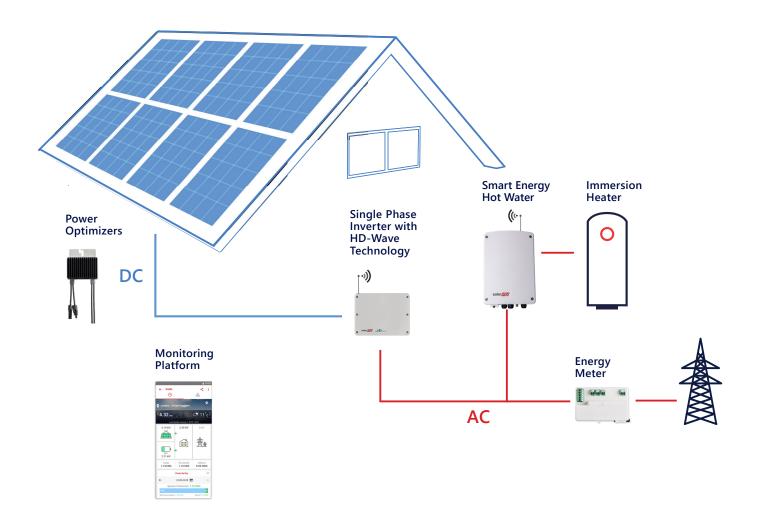
/ Smart Energy Hot Water

SMRT-HOT-WTR-30-S1

	SMRT-HOT-WTR-30-S1	UNIT
ELECTRICAL SERVICE		
Operating Voltage Range	205-264	Vac
AC Frequency	50	Hz
Nominal Voltage	230	Vac
Supported Grids	L/N/PE	
Maximum Supported Load Size	3.0	kW
Input over voltage protection ⁽¹⁾	264	Vac
Maximum Load Current Rating	13	Α
Minimum Output Power	5% of load rating	
Load Type	Resistive	
Efficiency	> 98	%
Output Over-current Protection	22	Α
External Over-current Protective Device Rating	≥ 20	Α
Type of Action	Type 1 C	
COMMUNICATION	,	
Supported Communication Protocol	ZigBee Home Automation	
Device Configuration	Via the inverter LCD, the monitoring platform/ app, or SetApp; Ethernet connection is required	
Nominal Transmit Power	11.8	dBm
Operating Frequency Range	2.4 - 2.5	GHz
EIRP with Antenna	16.8	dBm
Maximum Emitted Power		dBm
	≤20	
Bandwidth	2 O ODSK with DSSS and in a	MHz
Modulation (100 P	O-QPSK with DSSS coding	
Outdoor (LOS) Range	400 / 1312	m / ft
Indoor Range ⁽²⁾	50 / 164	m / ft
STANDARD COMPLIANCE	TTO THE 200 200 MAIN A TTO THE 201 MO A TTO THE 201 MO AT	
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, EMC directive 2014/30/EU	
INSTALLATION SPECIFICATIONS		1
Dimensions (H x W x D)	375 x 240 x 110 / 14.7 x 9.5 x 4.5	mm / i
Weight	5.3 /11.7	kg / lk
Operating Temperature Range	-10 to +50 / 14 to 122	°C / °F
Maximum distance between Device and Load/Cable cross section	3/10 for 15 AWG/1.5 mm ² 20/65 for 13 AWG/ 2.5 mm ²	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	
Cable Gland Diameters	2 glands 6-12, 1 gland 4-8	
Mounting Type	Wall mount	
P Rating	IP65	
SENSOR SPECIFICATIONS(3)		
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)	
Tobe temperature range		

⁽¹⁾ The device stops diverting power to the load when this threshold is exceeded (2) Approximate values. May differ depending on specific installation conditions (3) Temperature sensor ordered separately. For more information please contact SolarEdge

/ SolarEdge System with Smart Energy Hot Water



Temperature Sensor®



