

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

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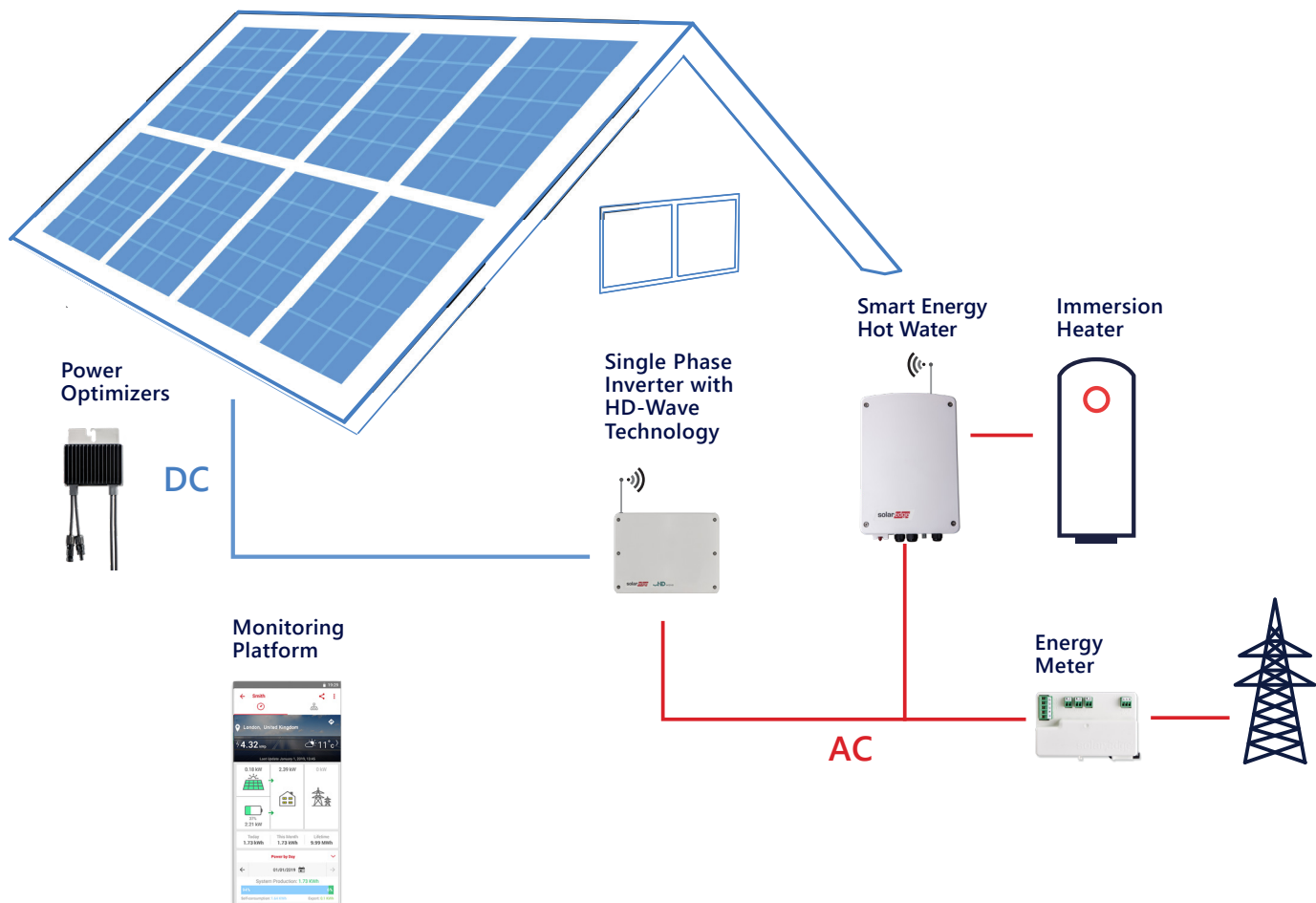
SMRT-HOT-WTR-30-S1		UNIT
ELECTRICAL SERVICE		
Operating Voltage Range	205-264	Vac
AC Frequency	50	Hz
Nominal Voltage	230	Vac
Supported Grids	L / N / PE	
Maximum Supported Load Size	3.0	kW
Input over voltage protection ⁽¹⁾	264	Vac
Maximum Load Current Rating	13	A
Minimum Output Power	5% of load rating	
Load Type	Resistive	
Efficiency	> 98	%
Output Over-current Protection	22	A
External Over-current Protective Device Rating	≥ 20	A
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	≤20	dBm
Bandwidth	2	MHz
Modulation	O-QPSK with DSSS coding	
Outdoor (LOS) Range	400 / 1312	m / ft
Indoor Range ⁽²⁾	50 / 164	m / ft
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, EMC directive 2014/30/EU	
INSTALLATION SPECIFICATIONS		
Dimensions (H x W x D)	375 x 240 x 110 / 14.7 x 9.5 x 4.5	mm / in
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 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	mm ² / 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	
IP 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)	
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⁾ 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⁽³⁾

