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# Smart Energy Hot Water

SMRT-HOT-WTR-30-S1 , SMRT-HOT-WTR-50-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 5.0kW)
- // 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-50-S1

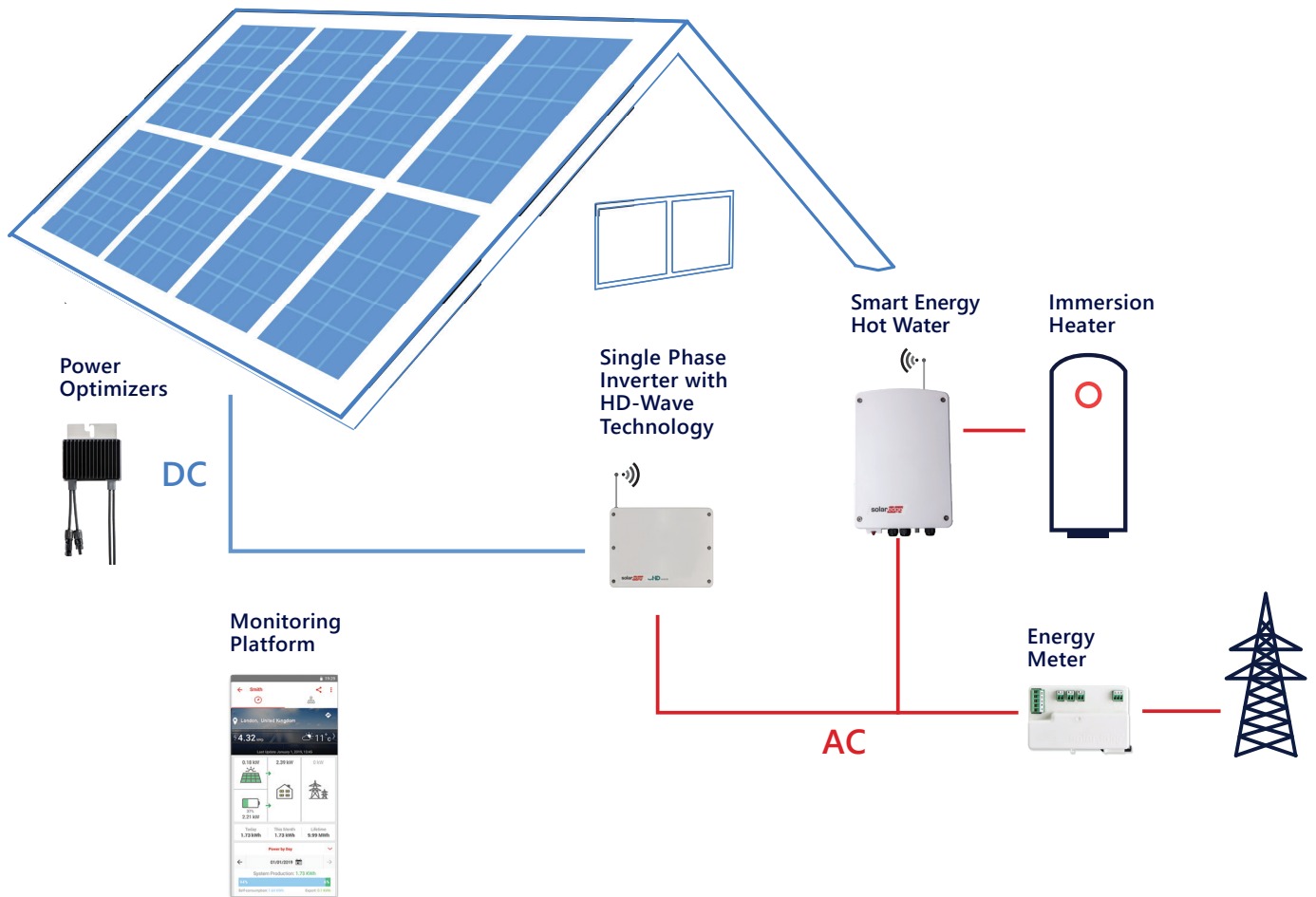
	SMRT-HOT-WTR-30-S1	SMRT-HOT-WTR-50-S1	UNIT
<b>ELECTRICAL SERVICE</b>			
Operating Voltage Range	205-264		Vac
AC Frequency	50		Hz
Nominal Voltage	230		Vac
Supported Grids	L / N / PE		
Maximum Supported Load Size	3.0	5.0	kW
Input over voltage protection <sup>(1)</sup>	264		Vac
Maximum Load Current Rating	13	22	A
Minimum Output Power	5% of load rating		
Load Type	Resistive		
Efficiency	> 98		%
Output Over-current Protection	13	22	A
External Over-current Protective Device Rating	≥ 20	≥ 25	A
Type of Action	Type 1 C		
<b>COMMUNICATION</b>			
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 <sup>(2)</sup>	50 / 164		m / ft
<b>STANDARD COMPLIANCE</b>			
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		
<b>INSTALLATION SPECIFICATIONS</b>			
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 <sup>2</sup> 20/65 for 13 AWG/ 2.5 mm <sup>2</sup>	3/10 for 13 AWG/2.5 mm <sup>2</sup> 20/65 for 11 AWG/ 4 mm <sup>2</sup>	m / ft
Terminal Block Minimum Wire Cross Section	1.5 / 15		mm <sup>2</sup> / 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		
<b>SENSOR SPECIFICATIONS<sup>(3)</sup></b>			
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		
Temperature Accuracy	1		%

(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<sup>(3)</sup>

