

# 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

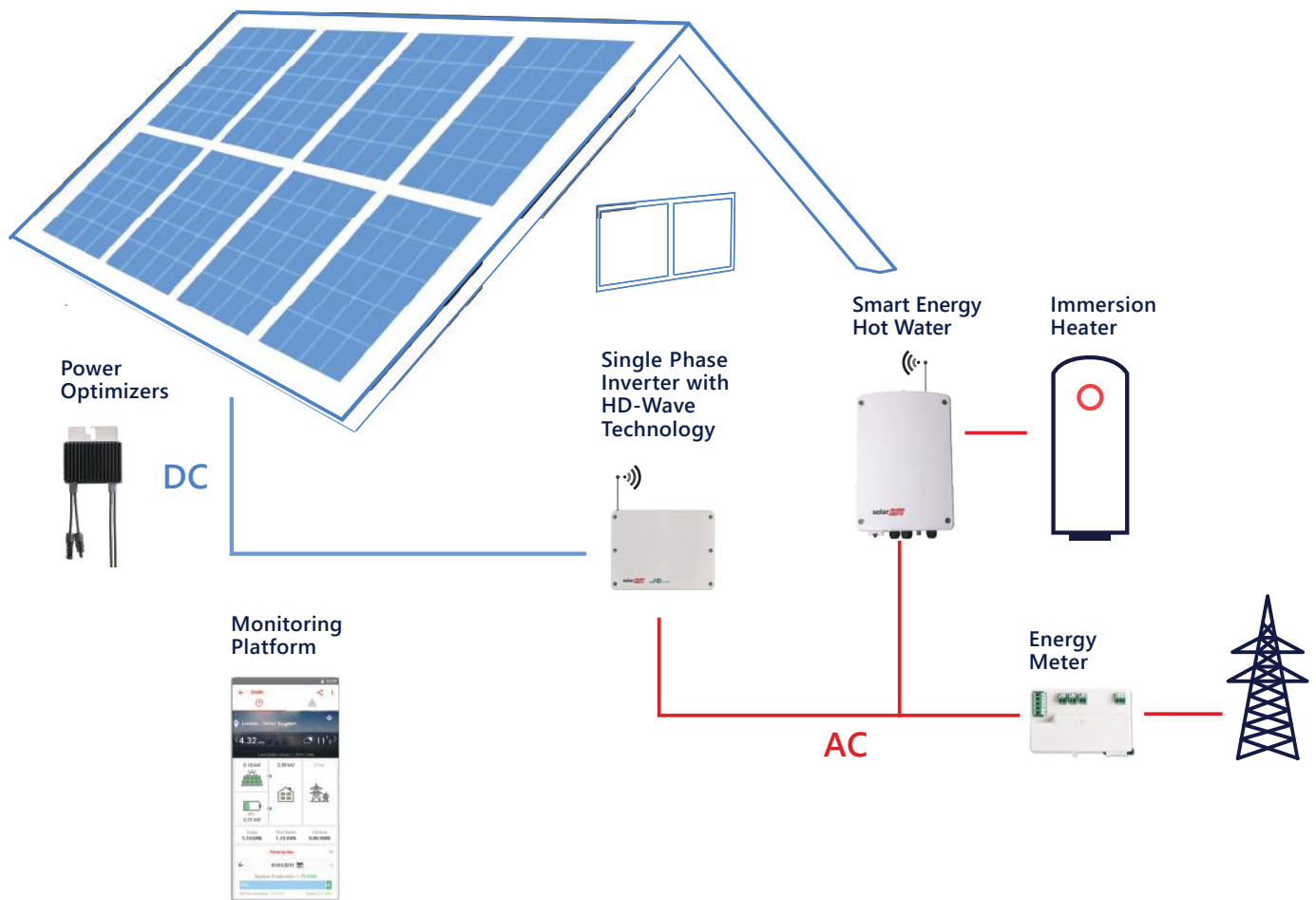
	SMRT-HOT-WTR-30-S1		SMRT-HOT-WTR-50-S1		UNIT
ELECTRICAL SERVICE					
Operating Voltage Range	205-264				Vac
AC Frequency	50				Hz
Nominal Voltage	230				Vac
Supported Grids	L / N / PE				
Maximum Supported Load Size	3.0		5.0		kW
Input over voltage protection <sup>(1)</sup>	264				Vac
Maximum Load Current 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				
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 <sup>(2)</sup>	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 mm² 20/65 for 13 AWG/ 2.5 mm²		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				
Cable Gland Diameters	2 glands 6-12, 1 gland 4-8				
Mounting Type	Wall mount				
IP Rating	IP65				
SENSOR SPECIFICATIONS <sup>(3)</sup>					
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>

