# SolarEdge Home Hot Water Controller

## For Europe

SMRT-HOT-WTR-30-S2 / SMRT-HOT-WTR-50-S2

SMART ENERGY




## Maximizes 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 5.0kW)
- Wireless communication to the inverter using SolarEdge Home Network, reducing wiring, labor, 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 optimized heating

# / SolarEdge Home Hot Water Controller

## For Europe

SMRT-HOT-WTR-30-S2 / SMRT-HOT-WTR-50-S2

| | SMRT-HOT-WTR-30-S2 | SMRT-HOT-WTR-50-S2 | |
|---|---|---|---|
| **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 Overvoltage Protection(1) | 264 | | Vac |
| Maximum Load Current Rating | 13 | 22 | A |
| Minimum Output Power | 5% of load rating | | |
| Load Type | Resistive | | |
| Efficiency | > 98 | | % |
| Output Overcurrent Protection | 13 | 22 | A |
| External Overcurrent Protective Device Rating | ≥ 20 | ≥ 25 | A |
| Type of Action | Type 1 C | | |
| **COMMUNICATION** | | | |
| Supported Communication Protocol | SolarEdge Home Network | | |
| Device Configuration | Monitoring platform/app or SetApp; Ethernet connection is required | | |
| Operating Frequency Range | 863 – 870 (EU) | | MHz |
| Modulation | O-QPSK (Quadrature phase shift keying) | | |
| EIRP with Antenna | 14 (EU) | | 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, 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 / inch |
| 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 / 1.5mm²<br>20/65 for 13 AWG / 2.5mm² | 3/10 for 13 AWG / 2.5mm²<br>20/65 for 11 AWG / 4mm² | AWG / mm² |
| Terminal Block Minimum Wire Cross-Section | 15 / 1.5 | | AWG / mm² |
| 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 | | |
| Self-Consumption | < 2.5 | | W |
| **SENSOR SPECIFICATIONS(2)** | | | |
| 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" NPT 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) Temperature sensor ordered separately. For more information, please contact SolarEdge.

© SolarEdge Technologies, Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc.
All other trademarks mentioned herein are trademarks of their respective owners. Date: October 24, 2022 DS-000187-EU. Subject to change without notice.