

SolarEdge Home Smart Switch For North America

SEM-SWT-N16-00



Optimize energy consumption by controlling appliance usage

- / Controls dedicated permanently connected appliances
- / Controls devices for increased backup time
- / Increases savings and reduces grid dependency by maximizing solar energy consumption
- / Seamlessly integrates into the SolarEdge Home ecosystem with SolarEdge Home Network
- / Offers a single source for warranty, support, and training, to streamline logistics and operations
- / Switching relays support a wide AC and DC voltage range

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| | | Units |
|--------------------------------------|---|---------|
| POWER | | |
| AC Input Voltage | 90 – 250 | Vac |
| AC Frequency | 60 | Hz |
| Switch Current | 16 | A |
| Poles | 1 | |
| Relay Switching Cycles | > 20,000 | |
| Operating Hours | 50,000 | hr |
| Installation Altitude | 2000 / 6562 | m / ft |
| Measurement Accuracy | 3 | % |
| Power Consumption | < 1.5 | W |
| ENVIRONMENTAL | | |
| Operating Temperature | -10 to +50 / +14 to +122 | °C / °F |
| Storage Temperature | -20 to +60 / -4 to +140 | °C / °F |
| Relative Humidity (non-condensing) | 0 – 95 | % |
| Ingress Protection | IP30 | |
| INSTALLATION SPECIFICATIONS | | |
| Compatible SolarEdge Inverters | Residential inverters with SetApp configuration, including: SolarEdge Home Hub Inverters and SolarEdge Home Wave Inverters | |
| Dimensions L x W x H | 100 x 50 x 35 / 3.93 x 1.96 x 1.37 Excluding din-rail adapter | mm / in |
| COMMUNICATION | | |
| Supported Communication Protocol | SolarEdge Home Network | |
| Device Configuration | Monitoring platform/app or SetApp; Ethernet connection is required | |
| Operating Frequency Range | 902 – 928 (NAM) | MHz |
| Modulation | O-QPSK (Quadrature phase shift keying) | |
| EIRP with Antenna | 20 | dBm |
| TEMPERATURE SENSOR | | |
| Ambient Temperature Sensing Accuracy | ± 0.5 | °C |
| ACCESSORIES | | |
| Included Mounting Materials | Wood screws, Double-sided tape Rail Mounting: Din-Rail adapter according to IEC/EN 60715 | |
| STANDARD COMPLIANCE | | |
| Applicable Safety Standards | IEC 60730-1:2013+AMD1:2015+AMD2:2020 CSV; UL 916:2021 Ed.5 ⁽¹⁾ ; UL 60730-1:2016 Ed.5; CSA E60730-1:2015 Ed.5 | |
| EMC Standards | IEC/UL/EN 60730-1; EN 301 489-1; EN 301 489-3; EN 61000-3-2; EN 61000-3-3; FCC Part 15, Class B | |
| Radio Standards | EN 300 220; FCC 15.247C | |
| Regulation Mark | CE; ETL | |

(1) For compliance with UL 916, install inside of a UL 50/UL 50E listed enclosure.

