

# SolarEdge Home Hub Universal Inverter

## Three Phase, for Australia

SE10K-RWB48



### Three phase inverter for storage and backup applications

- ▮ The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage\*, and smart energy devices
- ▮ Suitable for storage application of residential and small-scale commercial installations
- ▮ More energy using DC coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- ▮ Quick and easy inverter installation and commissioning directly from a smartphone using the SolarEdge Go
- ▮ Designed to eliminate high voltage during installation, maintenance, or firefighting, for enhanced safety
- ▮ Enables module-level monitoring and full visibility of battery status, PV production, and self-consumption data

\* Backup applications are available for residential installations only and are subject to local regulations. Additional components and a firmware upgrade may be required. For more information regarding commercial deployments where backup power is not supported, refer to [this application note](#).

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|                                                                                                                                                                 | SE10K-RWB48                                                                              | UNITS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|
| <b>OUTPUT – AC ON GRID</b>                                                                                                                                      |                                                                                          |       |
| Rated AC Power Output                                                                                                                                           | 10,000                                                                                   | VA    |
| Maximum AC Power Output                                                                                                                                         | 10,000                                                                                   | VA    |
| AC Output Voltage – Line to Line / Line to Neutral (Nominal)                                                                                                    | 400 / 230                                                                                | Vac   |
| AC Output Voltage – Line to Neutral (Range)                                                                                                                     | 184 – 264.5                                                                              | Vac   |
| AC Frequency                                                                                                                                                    | 50 ± 5                                                                                   | Hz    |
| Maximum Continuous Output Current (per phase)                                                                                                                   | 16                                                                                       | A     |
| Fault Current Protection per Phase (120ms)                                                                                                                      | 22                                                                                       | A     |
| Overvoltage Category (Mains)                                                                                                                                    | OVC III                                                                                  |       |
| Overvoltage Category (PV)                                                                                                                                       | OVC II                                                                                   |       |
| Protective Class                                                                                                                                                | I                                                                                        |       |
| Total Harmonic Distortion (THD)                                                                                                                                 | <3                                                                                       | %     |
| Grids Supported – Three Phase                                                                                                                                   | 3 / N / PE Three Phase (WYE with Neutral)                                                |       |
| Power Factor Range                                                                                                                                              | 1 ± 0.8                                                                                  |       |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds                                                                                       | Yes                                                                                      |       |
| Active Anti-Islanding Method                                                                                                                                    | Slip mode frequency shift                                                                |       |
| Charge Battery from AC (if allowed)                                                                                                                             | Yes                                                                                      |       |
| <b>OUTPUT – AC BACKUP<sup>(1)</sup></b>                                                                                                                         |                                                                                          |       |
| Maximum AC Power Output                                                                                                                                         | 10,000                                                                                   | VA    |
| AC Output Voltage – Line to Line / Line to Neutral (Nominal)                                                                                                    | 400 / 230                                                                                | Vac   |
| AC Output Voltage – Line to Neutral Range                                                                                                                       | 184 – 264.5                                                                              | Vac   |
| AC Frequency                                                                                                                                                    | 52 ± 5                                                                                   | Hz    |
| Maximum Continuous Output Current (per phase)                                                                                                                   | 16                                                                                       | A     |
| Fault Current Protection per Phase (120ms)                                                                                                                      | 22                                                                                       | A     |
| Grids Supported                                                                                                                                                 | 3 / N / PE Three Phase (WYE with Neutral)                                                |       |
| Transformer-less, Ungrounded                                                                                                                                    | Yes                                                                                      |       |
| Utility Monitoring, Ensure Safe Disconnection from Utility Grid in Backup Operation <sup>(1)</sup> , Configurable Power Factor, Country Configurable Thresholds | Yes                                                                                      |       |
| Automatic Switchover Time                                                                                                                                       | ≤ 6                                                                                      | Sec   |
| Max Allowed Imbalanced Between Phases                                                                                                                           | 3.33                                                                                     | Kw    |
| <b>INPUT PV</b>                                                                                                                                                 |                                                                                          |       |
| Maximum DC Power (Module STC)                                                                                                                                   | 20,000                                                                                   | W     |
| Input Voltage Range                                                                                                                                             | 750 – 900                                                                                | Vdc   |
| Maximum Short Circuit Current                                                                                                                                   | 10                                                                                       | kA    |
| Maximum Input Current                                                                                                                                           | 20                                                                                       | Adc   |
| Reverse-Polarity Protection                                                                                                                                     | Yes                                                                                      |       |
| Ground-Fault Isolation Detection                                                                                                                                | 700 kΩ Sensitivity                                                                       |       |
| <b>INPUT/OUTPUT BATTERY</b>                                                                                                                                     |                                                                                          |       |
| Supported Battery Types                                                                                                                                         | SolarEdge Home Battery – Three Phase for Australia BAT-05K48 (1 – 5 battery modules)     |       |
| Maximum Charge/Discharge Power                                                                                                                                  | 5000                                                                                     | W     |
| Input Voltage Range                                                                                                                                             | 40 – 62                                                                                  | Vdc   |
| Maximum Continuous Input/Output Current                                                                                                                         | 125                                                                                      | Adc   |
| Battery to Inverter Communication                                                                                                                               | CAN                                                                                      |       |
| Battery Input (DC/DC) Isolation                                                                                                                                 | Galvanic Isolation                                                                       |       |
| <b>PEAK EFFICIENCY</b>                                                                                                                                          |                                                                                          |       |
| PV to Grid                                                                                                                                                      | 98                                                                                       | %     |
| PV to Battery DC                                                                                                                                                | 98.4                                                                                     | %     |
| Battery DC to Grid                                                                                                                                              | 96.1                                                                                     | %     |
| European Weighted Efficiency                                                                                                                                    | 97.6                                                                                     | %     |
| <b>ADDITIONAL FEATURES</b>                                                                                                                                      |                                                                                          |       |
| Supported Communication Interfaces                                                                                                                              | Built-in: 2 x RS485, Ethernet, SolarEdge Home Network                                    |       |
| EV Charging                                                                                                                                                     | Smart EV ready – separate EV charger and cabling required                                |       |
| Inverter Commissioning                                                                                                                                          | With the SolarEdge Go application using built-in Wi-Fi access point for local connection |       |

(1) Backup applications are available for residential installations only and are subject to local regulations. Additional components and a firmware upgrade may be required. For more information regarding commercial deployments where backup power is not supported, refer to [this application note](#).

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|                                         | SE10K-RWB48                                                                                                                                                                                              | UNITS           |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>POWER OPTIMISER COMPATIBILITY</b>    |                                                                                                                                                                                                          |                 |
| Supported Power Optimisers              | SolarEdge S-Series and P-Series (1:1 Power Optimisers only)                                                                                                                                              |                 |
| <b>STANDARD COMPLIANCE</b>              |                                                                                                                                                                                                          |                 |
| Safety                                  | IEC 62109, AS/NZS3100                                                                                                                                                                                    |                 |
| Grid Connection Standards               | AS/NSZ 4777.2:2020, EN 50549-1                                                                                                                                                                           |                 |
| Emissions                               | IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, EN 55011                                                                                                                                   |                 |
| RoHS                                    | Yes                                                                                                                                                                                                      |                 |
| <b>INSTALLATION SPECIFICATIONS</b>      |                                                                                                                                                                                                          |                 |
| AC Output – Cable Gland Diameter        | 15 – 21                                                                                                                                                                                                  | mm              |
| AC Output – Cable Cross Section         | 2.5 – 16                                                                                                                                                                                                 | mm <sup>2</sup> |
| Battery DC – Cable Gland Outer Diameter | 2 x 11 – 16.5                                                                                                                                                                                            | mm              |
| Battery DC – Cable Cross Section        | 35                                                                                                                                                                                                       | mm <sup>2</sup> |
| PV DC Input                             | 2 x MC4 pair                                                                                                                                                                                             |                 |
| Topology                                | Isolated                                                                                                                                                                                                 |                 |
| Dimensions (H x W x D)                  | 907 x 317 x 192                                                                                                                                                                                          | mm              |
| Weight                                  | 37                                                                                                                                                                                                       | kg              |
| Operating Temperature Range             | -40 to +60                                                                                                                                                                                               | °C              |
| Cooling                                 | Fans                                                                                                                                                                                                     |                 |
| Noise                                   | < 50                                                                                                                                                                                                     | dBA             |
| Protection Rating                       | IP65 – outdoor and indoor                                                                                                                                                                                |                 |
| Maximum Altitude                        | 3000                                                                                                                                                                                                     | m               |
| Manufacturing Country                   | Hungary, China, Vietnam                                                                                                                                                                                  |                 |
| Mounting                                | Brackets provided                                                                                                                                                                                        |                 |
| External RCD                            | Unless a different value is required by the local electric code, SolarEdge recommends a type-A RCD with a value of 100mA, and a minimum Residual Non-Tripping Current ( $I_{\Delta no}$ ) value of 70mA. |                 |

#### SOLAREGE HOME HUB INVERTER – ACCESSORIES (PURCHASED SEPARATELY)

##### OPTIONAL COMMUNICATION INTERFACES

Wi-Fi

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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