

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 SetApp
- ✓ 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
OUTPUT – AC ON GRID		
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	
OUTPUT – AC BACKUP⁽¹⁾		
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
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 ⁽¹⁾ , Configurable Power Factor, Country Configurable Thresholds	Yes	
Automatic Switchover Time	≤ 6	Sec
Max Allowed Imbalanced Between Phases	3.33	Kw
INPUT PV		
Maximum DC Power (Module STC)	20,000	W
Input Voltage Range	750 – 900	Vdc
Maximum Short Circuit Current	10	mA
Maximum Input Current	20	Adc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	700 kΩ Sensitivity	
INPUT/OUTPUT BATTERY		
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	
PEAK EFFICIENCY		
PV to Grid	98	%
PV to Battery DC	98.4	%
Battery DC to Grid	96.1	%
European Weighted Efficiency	97.6	%
ADDITIONAL FEATURES		
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 SetApp mobile 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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STANDARD COMPLIANCE		
Safety	IEC 62109; AS/NZS3100	
Grid Connection Standards	AS/NZS 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	
INSTALLATION SPECIFICATIONS		
AC Output – Cable Gland Diameter	15 – 21	mm
AC Output – Cable Cross Section	2.5 – 16	mm ²
Battery DC – Cable Gland Outer Diameter	2 x 11 – 16.5	mm
Battery DC – Cable Cross Section	35	mm ²
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.	

SOLAREDGE HOME HUB INVERTER – ACCESSORIES (PURCHASED SEPARATELY)

OPTIONAL COMMUNICATION INTERFACES

Wi-Fi

Cellular

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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