

SolarEdge Home Hub Inverter

Three Phase, for Israel

SE5K-ILB48 / SE7K-ILB48 / SE8K-ILB48 / SE10K-ILB48



Three phase inverter for storage and backup applications

- Simple installation with single inverter for managing both PV production, battery storage, and operation during power outage for full house backup applications*
- More energy using DC coupled solution architecture that stores PV power directly to the battery without AC conversion losses
- Quick and easy inverter 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

* Requires additional hardware and firmware version upgrade

/ SolarEdge Home Hub Inverter

Three Phase, for Israel

SE5K-ILB48 / SE7K-ILB48 / SE8K-ILB48 / SE10K-ILB48

	SE5K-ILB48	SE7K-ILB48	SE8K-ILB48	SE10K-ILB48	UNITS
OUTPUT – AC ON GRID					
Rated AC Power Output (Total/Per Phase)	5000/1667	7000/2333	8000/2667	10000/3333	VA
Maximum AC Power Output (Total/Per Phase)	5000/1667	7000/2333	8000/2667	10000/3333	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230				Vac
AC Output Voltage – Line to Neutral (Range)	184 – 264.5				Vac
AC Frequency	50/60 ± 5				Hz
Maximum Continuous Output Current (per phase)	8	11	13	16	A
Residual Current Detector / Residual Current Step Detector	300/30				mA
Grids Supported	3 / N / PE Three Phase (WYE with Neutral)				
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
OUTPUT – AC BACKUP					
Maximum AC Power Output (Total/Per Phase)	5000/1667	7000/2333	8000/2667	10000/3333	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380/220; 400/230				Vac
AC Output Voltage – Line to Neutral Range	184 – 264.5				Vac
AC Frequency	50/60 ± 5				Hz
Maximum Continuous Output Current (per phase)	8	11	13	16	A
Residual Current Detector / Residual Current Step Detector	300/30				mA
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, Configurable Power Factor, Country Configurable Thresholds	Yes				
Automatic Switchover Time	< 10				Sec
Max Allowed Imbalanced Between Phases	1.66	2.33	2.66	3.33	Kw
INPUT PV					
Maximum DC Power (Module STC)	10000	14000	16000	20000	W
Input Voltage Range	750 – 900				Vdc
Maximum Input Current	13.3	18.6	21.3	26.6	Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	700kΩ Sensitivity				
INPUT/OUTPUT BATTERY					
Supported Battery Types	SolarEdge Home Battery 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				
EFFICIENCY					
PV to Grid (Peak)	98				%
PV to Battery DC (Peak)	98.4				%
Battery DC to Grid (Peak)	96.1				%
European Weighted Efficiency	97.3	97.6		%	

/ SolarEdge Home Hub Inverter

Three Phase, for Israel

SE5K-ILB48 / SE7K-ILB48 / SE8K-ILB48 / SE10K-ILB48

	SE5K-ILB48	SE7K-ILB48	SE8K-ILB48	SE10K-ILB48	UNITS
STANDARD COMPLIANCE					
Safety	IEC62109				
Grid Connection Standards ⁽¹⁾	VDE-AR-N 4105, Tor Erzeuger Typ A, EN 50549-1, CEI 0-21, G98 Type A, G98 NI Type A, RD1699 / RD413 / NTS, VDE-V 0126-1-1, VFR 2019, C10/11, EN 50438, VDE 2510-2				
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, EN55011				
RoHS	Yes				
INSTALLATION SPECIFICATIONS					
AC Output – Cable Gland Diameter	15 – 21				mm
AC – Cable Cross Section	2.5 – 16				mm ²
Battery DC – Cable Gland Outer Diameter	2 x 11 – 16.5				mm
PV DC Input	2 x MC4 pair				
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				
Mounting	Brackets provided				
External RCD	Unless a lower value is required by the local electric code, SolarEdge recommends a type-A RCD with a value of 100mA, and a Residual Non-Tripping Current (I _{Δno}) value of 70mA.				

(1) For all standards, see the Certifications category in the [Knowledge Center](#).

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.

-  SolarEdge
-  @SolarEdgePV
-  @SolarEdgePV
-  SolarEdgePV
-  SolarEdge
-  www.solaredge.com/corporate/contact

solaredge.com

© SolarEdge Technologies, Ltd. All rights reserved. SOLAREEDGE, the SolarEdge logo, OPTIMIZED BY SOLAREEDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: October 24, 2023 DS-000112-IL Subject to change without notice.

Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

