SolarEdge Commercial & Industrial Product Portfolio

Three Phase Commercial Inverter

12-20 YEAR WARRANTY

For Europe

SE20K / SE25K / SE27.6K / SE30K / SE33.3K / SE40K

Innovative three phase inverters designed to maximize PV energy production and safety

- Includes the MultiRange Concept, with each inverter supporting multiple power ratings for fewer part numbers and easier inventory management
- Quick, user-friendly inverter commissioning directly from a smartphone using the SolarEdge Go app
- Pre-commissioning via SolarEdge Go features automated system validation to verify proper wiring during site installation and prior to grid connection
- Lightweight, modular design enabling easy two-person installations
- Fixed voltage inverter for superior efficiency and longer strings
- Advanced, built-in safety features include:
  - Thermal sensors that detect faulty wiring
  - SafeDC™ and Rapid Shutdown, both designed to automatically reduce high DC voltage to safe levels upon grid/inverter shutdown
  - Arc fault protection
- Optional* integrated DC safety switch eliminates the need for external DC isolators
- Field-replaceable AC and DC surge protection devices designed for rapid maintenance and minimal system downtime
- Built-in monitoring for every two PV modules, for full system visibility

* Available only for SE-SIN-RWR0IBNH8



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Applicable to inverters with part number	SE-SIN-RWR0IBNH8/SE-SIN-RW00IBNM4						Units
	SE20K	SE25K	SE27.6K	SE30K	SE33.3K	SE40K	
OUTPUT							
Maximum Rated AC Capacity	40000						W
Maximum Active Power Output – Inverter Model Specific(1)	20,001(2)	25,000	27,600	29,990	33,300(3)	40000	W
Maximum Apparent Power Output – Inverter Model Specific(1)	20,001	25,000	27,600	29,990	33,300	40000	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380 / 220; 400 / 230		400 / 230	380 / 220; 400 / 230		480 / 277	Vac
AC Output Voltage – Line to Line / Line to Neutral	304 – 437 / 176 – 253; 320 – 460 / 184 – 264.5					422.5 – 529 / 244 – 305	Vac
AC Frequency	50 ± 5%						Hz
Maximum Continuous Output Current (per Phase)	29	36.25(4)	40	43.5(5)	48.25	48.25	Aac
AC Output Line Connections	3W + PE, 4W + PE						
Supported Grids(6)	WYE: TN-C, TN-S, TT, IT / Delta: IT						
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes						
Total Harmonic Distortion	< 3						%
Power Factor Range	±0.2 to 1						
Maximum Residual Current Injection(7)	100						mA
INPUT							
Maximum DC Power (Module STC)	35,000	43,750	48,300	52,500	58,275	70,000	W
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage DC+ to DC-	950		1000				Vdc
Operating Voltage Range	680 – 1000						Vdc
Maximum Input Current	29	36.25	40	43.5	48.25	48.25	Adc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	167 kΩ Sensitivity(8)						
Maximum Inverter Efficiency	98	98.3				98.1	%
European Weighted Efficiency	97.7	98					%
Nighttime Power Consumption	< 4						W
ADDITIONAL FEATURES							
Supported Communication Interfaces	2 x RS485, Ethernet, Wi-Fi(9)						
Smart Energy Management	Export Limitation						
Inverter Commissioning	Using the SolarEdge Go mobile application with a built-in Wi-Fi access point for local connection						
Arc Fault Protection	Integrated, User Configurable (according to UL 1699B / IEC 63027)						
Rapid Shutdown	Automatic upon AC grid disconnect (Available only in SE-SIN-RWR0IBNH8)						
RS485 Surge Protection	Available only in SE-SIN-RWR0IBNH8						
DC Surge Protection	Type II, field-replaceable, integrated						
AC Surge Protection	Type II, field-replaceable (Available only in SE-SIN-RWR0IBNH8)						
VAR at Night(10)	Yes						
DC SAFETY UNIT (Available only in SE-SIN-RWR0IBNH8)							
2-pole Disconnection	1000 V / 48.25 A						
Compliance	UTE-C15-712-1						
STANDARD COMPLIANCE							
Safety	IEC 63027; IEC 62109, AS 3100						
Grid Connection Standards(11)	VDE-AR-N-4105, VDE-AR-N-4110(12), AS-4777, EN 50438, CEI 0-21, VDE 0126-1-1, CEI 0-16, EN 50549-1, EN 50549-2, TOR Erzeuger Typ A, G99, G99 (NI), VFR 2019						
Emissions	IEC 61000-6-2, IEC 61000-6-3 Class A, IEC 61000-3-11, IEC 61000-3-12						
RoHS	Yes						

(1) The output capacity is determined by the inverter model selected during commissioning.
(2) In Italy and Hungary, the Rated AC Active Power Output is 19,900W.
(3) For sites under VDE-AR-N-4110, consider this as a 30 kW (at 90% Unom) inverter for site capacity calculations.
(4) For sites under VDE-AR-N-4110, the Maximum Continuous Output Current per Phase is 40A.
(5) For sites under VDE-AR-N-4110, the Maximum Continuous Output Current per Phase is 48.25A.
(6) Refer to the supported grids details in this Application Note.
(7) If an external RCD is required, its trip value must be ≥ 100mA.
(8) Where permitted by local regulations.
(9) Wi-Fi connectivity requires connection of an additional Wi-Fi component, ordered separately. For more details ask your SolarEdge salesperson.
(10) For details, see Set Volt Ampere Reactive at Night.
(11) For all standards refer to the Certificates category in the Knowledge Center.
(12) Not applicable for SE20K and SE40K.

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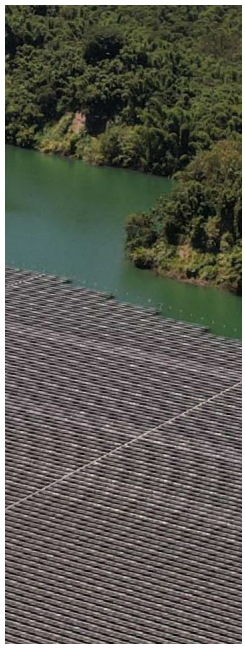
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	SE20K	SE25K	SE27.6K	SE30K	SE33.3K	SE40K	
INSTALLATION SPECIFICATIONS							
AC Output Gland Diameter / Line cross section / PE cross section	Cable diameter 19 – 28 mm / 4 – 16 mm^2 / 4 – 16 mm^2						
DC Input	4 MC4 pairs						
Dimensions (H x W x D)	550 x 317 x 273						mm
Dimensions with Safety Unit (H x W x D)	836 x 317 x 300						mm
Weight	32						kg
Weight with Safety Unit	36.5						kg
Operating Temperature Range	-40 to +60 (13)						°C
Cooling	Fan (user replaceable)						
Noise	< 62						dBA
Protection Rating	IP65 – outdoor and indoor						
Mounting	Brackets provided						

(13) For power derating information, refer to the Power Derating technical note.






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, and grid services solutions.

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