

Three Phase Inverter with Synergy Technology

12-20 YEAR WARRANTY



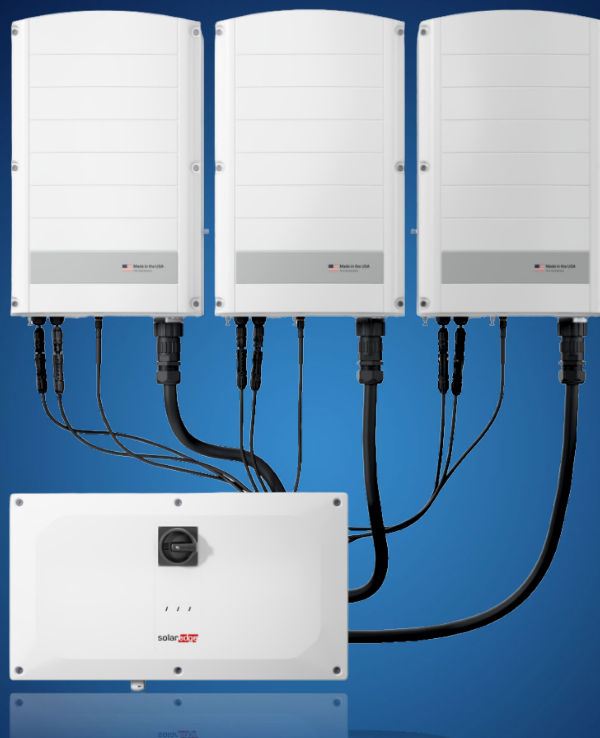
For International Markets

SE66.6K / SE90K / SE100K / SE120K

Powered by the MultiRange Concept, and includes a unique pre-commissioning process for rapid system installation

- Includes the MultiRange Concept, with each inverter supporting multiple power ratings for fewer part numbers and easier inventory management
- Pre-commissioning via SolarEdge Go features automated system validation to verify proper wiring during site installation and prior to grid connection
- Easy two-person installation with lightweight, modular design (each inverter consists of two or three Synergy Units and one Synergy Manager)
- Independent operation of each Synergy Unit enables higher uptime and easy serviceability
- Built-in PID mitigation for maximized performance
- 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 module-level monitoring for full system visibility

* Applicable only to the PN structure SE-TRI-RW001BNx4



MultiRange
Concept

solar**edge**

Three Phase Inverter with Synergy Technology For International Markets

SE66.6K / SE90K / SE100K / SE120K

Applicable to inverter with part number	SE-DBL- RW00IBNM4	SE-TRI-RW00IBNM4 / SE-TRI-RW00IBNQ4			Units
	SE66.6K For 380/400V Grid	SE90K For 380/400V Grid	SE100K For 380/400V Grid	SE120K For 480V Grid	
OUTPUT					
Rated AC Active Output Power ⁽¹⁾	66600	90000	100000	120000	W
Maximum AC Apparent Output Power ⁽¹⁾	66600	90000	100000	120000	VA
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	380 / 220; 400 / 230			480 / 277	Vac
AC Output Voltage – Line to Line Range / Line to Neutral Range	304 – 437 / 176 – 253; 320 – 478 / 184 – 264.5			432 – 529 / 249 – 305	Vac
AC Frequency	50/60 ± 5%				Hz
Maximum Continuous Output Current (per Phase)	96.5	145			Aac
AC Output Line Connections	3W + PE, 4W + PE				
Supported Grids	WYE: TN-C, TN-S, TN-C-S, TT, IT; Delta: IT				
Maximum Residual Current Injection ⁽²⁾	200	300			mA
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
Total Harmonic Distortion	≤ 3				%
Power Factor Range	± 0.2 to 1				
INPUT					
Maximum DC Power (Module STC) Inverter / Synergy Unit	116550 / 58275	157500 / 52500	175000 / 58300	210000 / 70000	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage DC+ to DC-	1000 ⁽⁸⁾				Vdc
Operating Voltage Range	680 – 1000				Vdc
Maximum Input Current	2 x 48.25	3 x 48.25			Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit ⁽³⁾				
Maximum Inverter Efficiency	98.3			98.1	%
European Weighted Efficiency	98				%
Nighttime Power Consumption	< 8	< 12			W
ADDITIONAL FEATURES					
Supported Communication Interfaces ⁽⁴⁾	2 x RS485, Ethernet, Wi-Fi (optional), Cellular (optional)				
Smart Energy Management	Export limitation				
Inverter Commissioning	With the SolarEdge Go mobile application using built-in Wi-Fi access point for local connection				
Arc Fault Protection	Built-in, User Configurable (According to UL1699B / IEC 63027)				
Rapid Shutdown (RSD)	Automatic upon AC grid disconnect				
PID Rectifier	Nighttime, built-in				
RS485 Surge Protection (ports 1 + 2)	Type II, field replaceable, integrated				
DC Surge Protection	Type II, field replaceable, integrated				
AC Surge Protection	Type II, field replaceable, optional				
DC Disconnect: SE-xxx- RW00IBNM4	No		No		
DC Disconnect: SE-xxx- RW00IBNQ4	Not Applicable		Yes		
Pre-Commissioning	Built-in ⁽⁵⁾				
VAR at Night ⁽⁶⁾	Yes				
STANDARD COMPLIANCE					
Safety	IEC 62109-1, IEC 62109-2, IEC 63027, IEC62548 Annex J				
Grid Connection Standards ⁽⁷⁾	VDE-AR-N-4105, AS-4777, EN 50549-1, EN 50549-2, CEI-021, VDE 0126-1-1, CEI-01				
Emissions	IEC 61000-6-2, IEC 61000-6-3 Class A, IEC 61000-3-11, IEC 61000-3-12				
Advanced Grid Support Capabilities	L/HFRT; L/HVRT; VOLT-VAR; VOLT-Watt; Frequency-Watt; Ramp Rate Control; Fixed Power Factor; Fixed Q; Cos (Phi) / Watt				
RoHS	Yes				

(1) Maximum values at 400V / 230V (for SE120K at 480V).

(2) If an external RCD is required, its trip value must be ≥ 200mA for SE66.6K; ≥ 300mA for SE90K/SE100K/SE120K.

(3) Where permitted by local regulations.

(4) For specifications of the optional communication options, visit the [Communication page](#) on the SolarEdge website or download the relevant product datasheet from the Knowledge Center.

(5) Not available for P/Ns SExxK-xxxxxBPxx.

(6) For details, see [Set Volt-Ampere Reactive at Night - Application Note](#).(7) For all standards and certificates download, refer to the [Certificates category](#) in the Knowledge Center.

(8) The maximum DC voltage shall not exceed 1000V.

Three Phase Inverter with Synergy Technology For International Markets

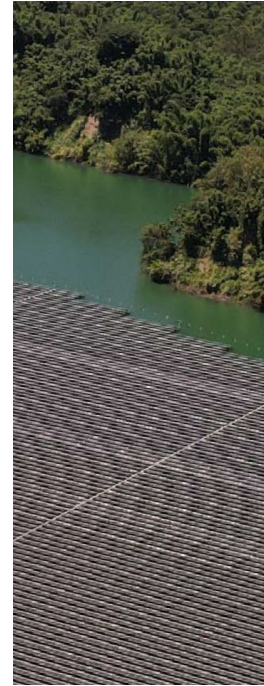
SE66.6K / SE90K / SE100K / SE120K

Applicable to inverter with part number	SE-DBL- RW00IBNM4	SE-TRI-RW00IBNM4 / SE-TRI-RW00IBNQ4			Units
	SE66.6K For 380/400V Grid	SE90K For 380/400V Grid	SE100K For 380/400V Grid	SE120K For 480V Grid	
INSTALLATION SPECIFICATIONS					
Number of Synergy Units per Inverter	2	3			
DC Input: Inverter / Synergy Unit ⁽¹⁾⁽²⁾	8 / 4 MC4 pairs	12 / 4 MC4 pairs			
Dimensions (H x W x D)	Synergy Unit: 558 x 328 x 273 Synergy Manager: 360 x 560 x 295				mm
Weight	Synergy Unit: 32 Synergy Manager: 18				kg
Operating Temperature Range	-40 to +60 ⁽³⁾				°C
Cooling	Fan (user replaceable)				
Noise	< 67				dBA
Protection Rating	IP65 – outdoor and indoor				
Mounting	Brackets provided				

(1) DC input is available with MC4 connection. For more information, contact SolarEdge.
(2) Only MC4 connectors manufactured by Staubli are approved for use.
(3) For power de-rating information refer to the [Temperature Derating](#) technical note.

Ordering Information		
Synergy Unit	P/N	Comments
With Rapid Shutdown	SESUK-RWROINNN8	2 units required for SE-DBL- xxxxxxxxx 3 units required for SE-TRI-xxxxxxx Made in the USA ⁽¹⁾
Accessories	P/N	Comments
AC SPD kit for Synergy Manager	SE-AC-SPD-SM	5 SPD devices per kit, 1 SPD device required per Synergy Manager

(1) Synergy Units are manufactured in the USA; Synergy Manager is manufactured in Vietnam.



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.

solaredge.com

© SolarEdge Technologies, Ltd. All rights reserved.

SOLAREGE, the SolarEdge logo, OPTIMIZED BY SOLAREGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: April 5, 2026 DS-000297 ROW 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.



Join the SolarEdge conversation

