

SolarEdge Home Wave Inverter

Three Phase, for Europe

SE3K-SE10K⁽¹⁾

	SE3K ⁽²⁾⁽³⁾	SE4K ⁽²⁾	SE5K	SE6K ⁽²⁾	SE7K	SE8K	SE9K	SE10K	UNITS
Applicable to inverters with part number	SEXK-XXXTXBXX4								
OUTPUT									
Rated AC Power Output	3000	4000	5000	6000	7000	8000	9000	10000	VA
Maximum AC Power Output	3000	4000	5000	6000	7000	8000	9000	10000	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)	5	6.5	8	10	11.5	13	14.5	16	A
Grids Supported - Three Phase	3 / N / PE (WYE with Neutral)								
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes								
INPUT									
Maximum DC Power (Module STC)	4050 ⁽⁴⁾	5400	6750	8100	9450	10800	12150	13500	W
Transformer-less, Ungrounded	Yes								
Maximum Input Voltage	900								Vdc
Nominal DC Input Voltage	750								Vdc
Maximum Input Current	5	7	8.5	10	12	13.5	15	16.5	Adc
Reverse-Polarity Protection	Yes								
Ground-Fault Isolation Detection	700kΩ Sensitivity								
Maximum Inverter Efficiency	98								%
European Weighted Efficiency	96.7	97.3	97.3	97.3	97.4	97.6	97.5	97.6	%
Nighttime Power Consumption	< 2.5								W
ADDITIONAL FEATURES									
Supported Communication Interfaces ⁽⁵⁾	RS485, Ethernet, ZigBee (optional), wireless SolarEdge Home Network (optional) ⁽⁶⁾ , Wi-Fi (optional), Cellular (optional)								
Smart Energy Management	Export Limitation, Home Energy Management (Device Control)								
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection								
STANDARD COMPLIANCE									
Safety	IEC-62103 (EN50178), IEC-62109								
Grid Connection Standards ⁽⁷⁾	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, G83 / G59								
Electromagnetic Compatibility (EMC)	EN/IEC 61000-6-1, EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN/IEC 61000-6-4, EN 55011, FCC Part 15, EN/IEC 61000-3-2, EN/IEC 61000-3-3, EN/IEC 61000-3-11, EN/IEC 61000-3-12								
RoHS	Yes								
INSTALLATION SPECIFICATIONS									
AC Output	Cable Gland - diameter 15-21								mm
DC Input	2 MC4 pairs								
Dimensions (HxWxD)	540 x 315 x 191								mm
Weight	16.4								kg
Operating Temperature Range	-40 to +60 ⁽⁸⁾								°C
Cooling	Internal Fan								
Noise	< 40								dBA
Protection Rating	IP65 - Outdoor and Indoor								
Mounting	Bracket Provided								

⁽¹⁾ For higher power models refer to: <https://www.solaredge.com/sites/default/files/se-three-phase-inverter-extended-power-datasheet.pdf>.

⁽²⁾ Available in some countries; refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>.

⁽³⁾ SE3K-RW010BNN4 is dedicated for connection of exactly 10 P404/P405/P485/P505 optimizers.

⁽⁴⁾ Maximum allowed DC power is 3700W with SE3K-RW010BNN4.

⁽⁵⁾ Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: <http://www.solaredge.com/groups/support/downloads>.

⁽⁶⁾ For more information, refer to: <https://www.solaredge.com/sites/default/files/se-energy-net-plug-in-datasheet.pdf>.

⁽⁷⁾ For all standards refer to Certifications category in Downloads page: <http://www.solaredge.com/groups/support/downloads>.

⁽⁸⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf>.

66HL4M-BDV 605-630 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	132 (66×2)
Dimensions	2382×1134×30 mm
Weight	32.4 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M / JK03M2 / Others*
Output Cables (Including Connector)	4.0 mm ² (+): 400 mm , (-): 200 mm or Customized Length

* MC4 and MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	2396×1110×1251 mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	605	610	615	620	625	630
Maximum Power Voltage - Vmp [V]	40.31	40.46	40.60	40.74	40.88	41.02
Maximum Power Current - Imp [A]	15.01	15.08	15.15	15.22	15.29	15.36
Open-circuit Voltage - Voc [V]	48.48	48.68	48.88	49.08	49.28	49.48
Short-circuit Current - Isc [A]	15.90	15.96	16.02	16.08	16.14	16.20
Module Efficiency STC [%]	22.40	22.58	22.77	22.95	23.14	23.32
Power Sorting	0 ~ + 3 %					
Temperature Coefficient of Pmax	-0.29 %/°C					
Temperature Coefficient of Voc	-0.25 %/°C					
Temperature Coefficient of Isc	0.045 %/°C					

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

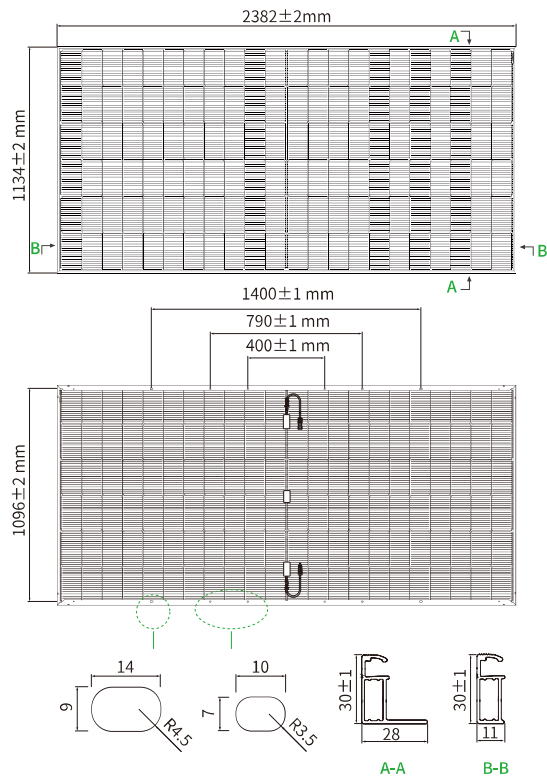
Maximum Power - Pmax [Wp]	668	674	679	685	690	696
Maximum Power Voltage - Vmp [V]	40.29	40.46	40.59	40.75	40.88	41.04
Maximum Power Current - Imp [A]	16.58	16.66	16.73	16.81	16.88	16.95
Open-circuit Voltage - Voc [V]	48.46	48.66	48.86	49.06	49.26	49.46
Short-circuit Current - Isc [A]	17.56	17.64	17.70	17.77	17.83	17.90

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficients	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

Engineering Drawings



Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

