SolarEdge Home Hub Inverter Single Phase, for Europe

SE2500H / SE3000H / SE3680H / SE4000H / SE5000H / SE6000H / SE8000H / SE10000H



JOME BACKUP

Single 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
- Record-breaking up to 99% weighted efficiency with up to 200% DC oversizing
- Integrates seamlessly with the complete SolarEdge Home ecosystem, through SolarEdge Home Network
- Small, lightweight, and easy to install

- Advanced safety features with integrated arc fault protection
- Enables module-level monitoring and full visibility of battery status, PV production, and self-consumption data
- A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem of products



^{*}Requires additional hardware and firmware version upgrade.

/ SolarEdge Home Hub Inverter

Single Phase, for Europe

SE2500H / SE3000H / SE3680H / SE4000H / SE5000H / SE6000H

Applicable to inverters with part number	SEXXXXH-RWBMNBF54						
number	SE2500H ⁽¹⁾	SE3000H	SE3680H	SE4000H	SE5000H	SE6000H	Units
OUTPUT – AC ON GRID	32230011	32300011	32300011	32 100011	32300011	32000011	Office
Rated AC Power	2500	3000	3680	4000	5000 ⁽²⁾	6000	VA
Maximum AC Power Output	2500	3000	3680	4000	5000 ⁽²⁾	6000	VA
AC Output Voltage (Nominal)	2300	3000	220 – 2		3000	0000	Vac
AC Output Voltage (Range)			184 – 26				Vac
AC Frequency Range (Nominal)			50 ±				Hz
Maximum Continuous Output Current RMS	12.0	14.0	16.0	18.5	23.0	27.5	A
Total Harmonic Distortion (THD)	12.0	11.0	< 3	10.5	23.0	27.3	%
Power Factor			1, adjustable -	0.9 to 0.9			70
Utility Monitoring, Islanding Protection,							
Country Configurable Thresholds			Yes				
Charge Battery from AC (if allowed)			Yes				
Typical Nighttime Power Consumption			< 2.)			W
OUTPUT – AC BACKUP	1						
Rated AC Power in Backup Operation			6000)			W
AC Output Voltage (Nominal)			220 – 2				Vac
AC Output Voltage (Range)			184 – 26				Vac
AC Frequency			50/60				Hz
Maximum Continuous Output Current in			·				
Backup Operation			27.5				Α
INPUT – DC (PV AND BATTERY)	1						
Transformer-less, Ungrounded			Yes				
Maximum Input Voltage			480				Vdc
Nominal DC Input Voltage			380				Vdc
Ground-Fault Isolation Detection			600kΩ Sensitiv	ity per Unit			
Maximum DC PV Power	5000	6000	7360	8000	10,000	12,000	W
Maximum Input Current	7.0	9.0	10.5	11.5	13.5	16.5	Adc
Isc PV	7.0	9.0	10.5	11.5	13.5	16.5	Adc
Maximum Inverter Efficiency		I.	99.2	11		11	%
European Weighted Efficiency	98.3		98.8		g	99	%
Reverse-Polarity Protection			Yes				
BATTERY STORAGE							
Supported Battery Models			SolarEdge Home	Battery 400V			
Number of Batteries per Inverter			Up to	3			
Continuous Power	5000W per battery, total continuous discharge power is limited up to the inverter rated AC power for on-grid and backup applications					W	
SMART ENERGY CAPABILITIES							
Backup and Battery Storage	With Backup Inte	face (purchased sep	parately) for service u	p to 100A; up to 3 S	SolarEdge single pha	ase inverters ⁽³⁾	
ADDITIONAL FEATURES					3 3 1		1
		RS/185 Ethernet W.	/i Fi (antional) LTF (- Home Network		
SUDDOLLEG COMMUNICATION INTERFACES			/I-FI (ODLIONAI). I I F II	optional). SolarEdge			
Supported Communication Interfaces Integrated AC, DC and Communication		N3403, Ethernet, W		optional), SolarEdge			
Integrated AC, DC and Communication Connection Unit		NO-103, Ethernet, W	Built-i				
Integrated AC, DC and Communication	Inverter Commissi	oning with the SetAp	Built-	n		ical connection	
Integrated AC, DC and Communication Connection Unit	Inverter Commissi	oning with the SetAp	Built-	n n using built-in Wi-F	i Access Point for Ia	cal connection	
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection	Inverter Commissi	oning with the SetAp	Built-i	n n using built-in Wi-F	i Access Point for Ia	cal connection	
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE	Inverter Commissi	oning with the SetAp	Built-i pp mobile application user configurable (a	n n using built-in Wi-F ccording to UL 1699	i Access Point for Ia	cal connection	
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu	Built- op mobile application user configurable (a IEC-62 uger Typ A, EN 5054	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T	Fi Access Point for Io 3B:2018) Type A, G98 NI Type		
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu RD 1699 / RD 413 /	Built-i op mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-	n n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11,	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100		
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC)		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu RD 1699 / RD 413 /	Built- op mobile application user configurable (a IEC-62 uger Typ A, EN 5054	n n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11,	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100		
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu RD 1699 / RD 413 /	Built- op mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1- C 61000-6-3, IEC 610	n n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100		mm
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu RD 1699 / RD 413 /	Built-in properties of the pro	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100		mm m ²
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section		oning with the SetAp Integrated, AR-N 4105, Tor Erzeu RD 1699 / RD 413 /	Built-in properties of the pro	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100		mm ²
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section Dimensions with Connection Unit (H x W x D)		oning with the SetAp Integrated, AR-N 4105, Tor Erzet RD 1699 / RD 413 / IEC 61000-6-2, IEC	Built-ipp mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-C 61000-6-3, IEC 610	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100 3-12, EN 55011		
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section Dimensions with Connection Unit (H x W x D) DC Input		oning with the SetAp Integrated, AR-N 4105, Tor Erzet RD 1699 / RD 413 / IEC 61000-6-2, IEC	Built-ipp mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-C 61000-6-3, IEC 610 9 - 1 1 - 1: 459 x 370 airs for PV input; 1 x	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100 3-12, EN 55011		mm² mm
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section Dimensions with Connection Unit (H x W x D) DC Input Weight		oning with the SetAp Integrated, AR-N 4105, Tor Erzet RD 1699 / RD 413 / IEC 61000-6-2, IEC	Built-ipp mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-C 61000-6-3, IEC 610 9 - 1 1 - 1: 459 x 370 airs for PV input; 1 x 12	n using built-in Wi-F ccording to UL 1699 109 9-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000- 6 3 x 154 MC4 pair for batter	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100 3-12, EN 55011		mm ²
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section Dimensions with Connection Unit (H x W x D) DC Input Weight Cooling		oning with the SetAp Integrated, AR-N 4105, Tor Erzet RD 1699 / RD 413 / IEC 61000-6-2, IEC	Built-ipp mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-C 61000-6-3, IEC 610 9 - 1 1 - 1: 459 x 370 airs for PV input; 1 x 12 Natural con	n n using built-in Wi-Fccording to UL 1699 109 19-1, CEI 0-21, G98 T 1, VFR 2019, C10/11, 00-3-11, IEC 61000-6 3 x 154 MC4 pair for batter vection	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100 3-12, EN 55011		mm² mm
Integrated AC, DC and Communication Connection Unit Inverter Commissioning Arc Fault Protection STANDARD COMPLIANCE Safety Grid Connection Standards Electromagnetic Compatibility (EMC) INSTALLATION SPECIFICATIONS AC Output – Supported Cable Diameter AC – Supported Wire Cross Section Dimensions with Connection Unit (H x W x D) DC Input Weight		oning with the SetAp Integrated, AR-N 4105, Tor Erzet RD 1699 / RD 413 / IEC 61000-6-2, IEC	Built-ipp mobile application user configurable (a IEC-62' uger Typ A, EN 5054 NTS, VDE-V 0126-1-C 61000-6-3, IEC 610 9 - 1 1 - 1: 459 x 370 airs for PV input; 1 x 12	n n using built-in Wi-Fccording to UL 1699 109 109 11, VFR 2019, C10/11, 00-3-11, IEC 61000-6 13 14 x 154 154 155 MC4 pair for batter 155 vection	Fi Access Point for Io 9B:2018) Type A, G98 NI Type EN 50438, G100 3-12, EN 55011		mm² mm

 $^{(1) \ \} Only \ available \ in \ Poland, \ France, \ and \ Hungary. \ For \ details \ about \ the \ inverters \ approved for \ installation \ in \ your \ country, see \ \underline{here}.$

^{(2) 4600}VA AC / 7130VA DC in Germany.

⁽³⁾ Firmware update required.

/ SolarEdge Home Hub Inverter

Single Phase, for Europe

SE8000H⁽⁴⁾ / SE10000H⁽⁴⁾

Applicable to inverters with part number	SEXXXXH-RWBMNBF54				
	SE8000H SE10000H				
OUTPUT – AC ON GRID	<u> </u>	<u> </u>	Units		
Rated AC Power	8000	10,000	VA		
Maximum AC Power Output	8000	10,000	VA		
AC Output Voltage (Nominal)		- 230	Vac		
AC Output Voltage (Range)	184 – 264.5		Vac		
AC Frequency Range (Nominal)	104 - 204.3 50/60 ± 5		Hz		
Maximum Continuous Output Current RMS	36.5	45.5	A		
Total Harmonic Distortion (THD)		3	%		
Power Factor	1, adjustable -0.8 to 0.8				
Utility Monitoring, Islanding Protection,	i, adjustable 0.0 to 0.0				
Country Configurable Thresholds	Ye	es			
Charge Battery from AC (if allowed)	Ye	es			
Typical Nighttime Power Consumption	< :	2.5	W		
OUTPUT – AC BACKUP					
Rated AC Power in Backup Operation	10.0	000	W		
AC Output Voltage (Nominal)		- 230	Vac		
AC Output Voltage (Ronge)		264.5	Vac		
AC Frequency		0 ± 5	Hz		
Maximum Continuous Output Current in Backup Operation	45		A		
INPUT – DC (PV AND BATTERY)	Τυ	5.5			
Transformer-less, Ungrounded		es 20) /-l-		
Maximum Input Voltage		80	Vdc		
Nominal DC Input Voltage		80	Vdc		
Ground-Fault Isolation Detection		tivity per Unit	147		
Maximum DC PV Power	16,000	20,000	W		
Maximum Input Current	20.5	25.5	Adc		
Isc PV	20.5	25.5	Adc		
Maximum Inverter Efficiency European Weighted Efficiency	99	9.2	%		
			70		
Reverse-Polarity Protection	11	es			
BATTERY STORAGE					
Supported Battery Types	9	ne Battery 400V			
Number of Batteries per Inverter		to 3	144		
Continuous Power	5000W pe	er battery ⁽⁵⁾	W		
SMART ENERGY CAPABILITIES					
Backup and Battery Storage	With Backup Interface (purchased	The second secon			
	up to 3 SolarEdge sir	ngle phase inverters ⁽⁶⁾			
ADDITIONAL FEATURES					
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi (optional), LTE (optional), SolarEdge Home Network				
Integrated AC, DC and Communication Connection Unit		lt-in			
Inverter Commissioning	Inverter Commissioning with the SetA				
	Wi-Fi Access Point				
Arc Fault Protection	Integrated, user configurable	(according to UL 1699B:2011)			
STANDARD COMPLIANCE					
Safety		52109			
Grid Connection Standards	VDE-AR-N 4105, Tor Erzeuger Typ A, EN 50549-1, CEI 0-21, G98 Type A, G98 NI Type A, RD 1699 / RD 413 / NTS, VDE-V 0126-1-1, VFR 2019, C10/11, EN 50438, G100				
Electromagnetic Compatibility (EMC)	IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, EN 55011				
INSTALLATION SPECIFICATIONS					
AC Output – Supported Cable Diameter	9 -	- 16	mm		
AC – Supported Wire Cross Section		- 13	mm ²		
Dimensions with Connection Unit (H x W x D)		70 x 185	mm		
DC Input	3 x MC4 pairs for PV input; 1				
Weight		0.6	kg		
Cooling		onvection	9		
Noise		50	dBA		
Operating Temperature Range		0 +60	%		
	IP65 – outdoor and indoor				

⁽⁴⁾ Only available in the United Kingdom, Spain, and France. For details about the inverters approved for installation in your country, see here.
(5) The total continuous discharge power is limited up to the inverter rated AC power for on-grid and backup applications.
(6) Firmware update required.

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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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.





To view YouTube videos for installing, wiring, and commissioning SolarEdge Inverters please click the links or scan the following QR codes:

For more information on Installation: https://youtu.be/pjuo7KjRHXc



For more information on Wiring: https://youtu.be/o_EgCnL_r38



For more information on Commissioning: https://youtu.be/_JoiC4_H8sk



StorEdge AC Coupled

Single Phase Inverter with HD-Wave Technology

SE3680H, SE5000H



STOREDGETM

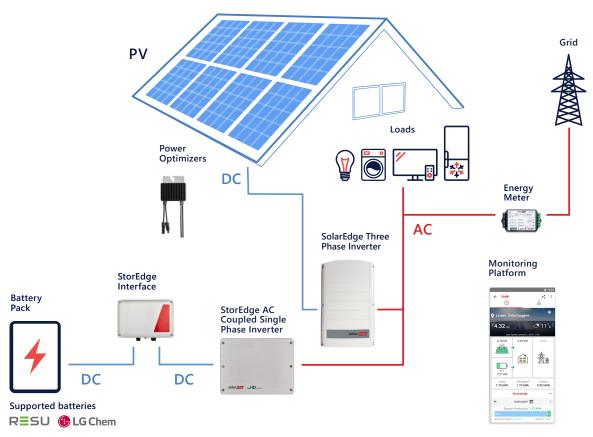
Upgrade existing PV systems to StorEdge™

- All the benefits of HD-Wave Technology: record-breaking efficiency, extremely small, lightweight and easy to install, and high reliability
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Specially designed to work side by side with SolarEdge Three Phase inverters and non-SolarEdge inverters
- Compatible with the StorEdge Interfaces and selected battery vendors such as the LG Chem RESU

- IP65 Outdoor and indoor installation
- No high voltage or current during installation, maintenance or firefighting for maximum safety
- The StorEdge AC Coupled Single Phase Inverter does not work with power optimizers or as a standard solar PV inverter
- Monitor battery status, PV inverter production, and self-consumption data for full visibility

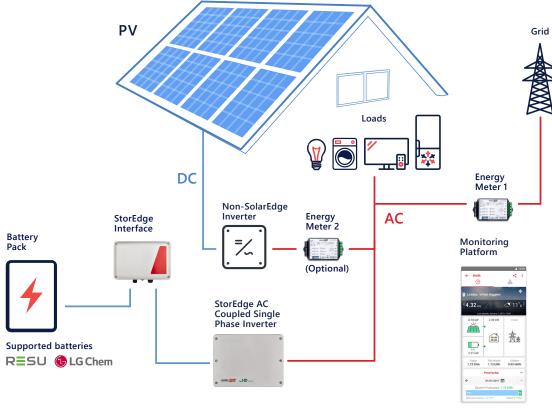


/ StorEdge AC Coupled Single Phase Inverter with Three Phase SolarEdge Inverter*



^{*} This configuration can be installed only in countries without per phase export limitation requirements

/ StorEdge AC Coupled Single Phase Inverter with Non-SolarEdge Inverter**



 $^{^{\}star\star} \ Energy \ meter \ 2 \ is \ optional \ - \ needed \ for \ full \ system \ monitoring: \ consumption, \ self-consumption \ and \ inverter \ production$

StorEdge AC Coupled Single Phase Inverter with HD-Wave Technology

SE3680H, SE5000H

	SE3680H	SE5000H		
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-RWSACBXXXX			
OUTPUT				
Rated AC Power Output (1)	3680	5000 (2)	VA	
Maximum AC Power Output (1)	3680	5000 ⁽²⁾	VA	
AC Output Voltage (Nominal)	220 ,	/ 230	Vac	
AC Output Voltage Range	184 - 264.5			
AC Frequency (Nominal)	50/60 ± 5			
Maximum Continuous Output Current	16	23	А	
Residual Current Detector / Residual Current Step Detector	300 / 30		mA	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes			
INPUT				
Battery	LG Chem RESU7H ⁽³⁾	LG Chem RESU10H ⁽³⁾	W	
Transformer-less, Ungrounded	Ye	es		
Maximum Input Voltage	48	80	Vdc	
Nominal DC Input Voltage	38	80	Vdc	
Maximum Input Current	10.5	13.5	Adc	
Reverse-Polarity Protection	Yo	es		
Ground-Fault Isolation Detection	600kΩ S	ensitivity		
Maximum Inverter Efficiency	99	9.2	%	
European Weighted Efficiency	98.8	99	%	
ADDITIONAL FEATURES				
Supported Communication Interfaces ⁽⁴⁾	RS485, Ethernet, ZigBee (optional), Wi-Fi (requires antenna) ⁽⁵⁾ , Cellular (optional)			
Inverter Commissioning	With the SetApp mobile application using built in Wi-Fi access point for local connection			
STANDARD COMPLIANCE			'	
Safety	IEC-62109-1	L/2, AS-3100		
Grid Connection Standards	AS-4777, VDE-AR-N-4105, VDE 0126-1-1, UTE C15-712, G83/2, G59/3, CEI-021, EN 50438, IEC61727, IEC62116, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-	3-11, IEC61000-3-12, FCC part15 class B		
RoHS	Yes			
INSTALLATION SPECIFICATIONS				
AC Output to other inverter	9-16		mm	
DC input	1 x MC4 pair	2 x MC4 pair		
Dimensions (HxWxD)	280 x 3	280 x 370 x 142		
Weight	7.8	9	kg	
Cooling	Natural Convection			
Noise	<25			
Operating Temperature Range	-40 to +60 ⁽⁶⁾			
Protection Rating	IP65 - Outdoo	or and Indoor		
Mounting	Bracket provided			

⁽¹⁾ The AC power output is the minimum between the AC Power Output and the battery continuous peak power





^{(2) 4600}VA in Germany

⁽³⁾ Supporting StorEdge Interface required
(4) Refer to Datasheets -> Communications category in Downloads page for specifications of optional communication options: http://www.solaredge.com/groups/support/downloads

⁽⁵⁾ Wi-Fi connectivity requires an external antenna. For more information refer to: https://www.solaredge.com/sites/default/files/se-wifi-zigbee-antenna-datasheet.pdf (6) De-rating from 50°C .For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf