

STORAGE

Homeowners can increase their energy independence and savings by storing excess solar production on a battery for use when needed, day or night.



StorEdge SESTI S4



StorEdge SE HD Wave



StorEdge SESTI S4 + Meter

A Solution for Every Home

SolarEdge provides single phase StorEdge solutions, for new and existing residential installations.

StorEdge Single Phase inverter with HD-Wave Technology

A single inverter unit connects directly to high voltage LG Chem RESU batteries. With fewer components for easier installations, the HD-Wave powered inverter manages PV production and consumption, battery power, and smart energy applications. It achieves a record-breaking 99% weighted efficiency, and includes a 12-year standard warranty extendable to up to 25 years.

Suitable for indoor or outdoor installations, inverter models range from 2.2kW to 6kW.

- A single unit which manages PV, household consumption, and battery power
- Simple installation and inventory management
- Allows connection of selected battery vendors such as the LG Chem RESU>
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Record-breaking efficiency
- High reliability
- Built-in module-level monitoring
- Designed to eliminate DC voltage and current during installation, maintenance or firefighting
- Fixed voltage inverter for longer strings Outdoor and indoor installation

StorEdge Interface

Designed to upgrade existing SolarEdge systems to the StorEdge on-grid solution, the StorEdge interface supports simple installation and connection of the high voltage LG Chem RESU batteries and SolarEdge energy meter to the SolarEdge inverter. It is suitable for indoor or outdoor installations, and includes a 10-year standard warranty.

- Allows connection of selected battery vendors such as the LG Chem RESU to a SolarEdge inverter
- Connects to the SolarEdge inverter in parallel to the PV strings
- Can be used to upgrade existing SolarEdge systems
- Simple installation and connectivity of the battery and the SolarEdge Energy Meter
- Designed to eliminate DC voltage and current during installation, maintenance or firefighting

STOREDGE INVERTERS

		SE2200H	SE3000H	SE3500H	SE4000H	SE5000H	SE6000H
OUTPUT							
Rated AC Power Output	VA	2200	3000	3500	4000	5000 ⁽¹⁾	6000
Máximum AC Power Output	VA	2200	3000	3500	4000	5000 ⁽¹⁾	6000
AC Output Voltage (Nominal)	Vac	220 / 230					
AC Output Voltage Range	Vac	184 - 264,5					
AC Frequency (Nominal)	Hz	50 / 60 ± 5					
Max. Continuous Output Current	A	10	14	16	18,5	23	27,5
Total Harmonic Distortion (THD)		< 3					
Power Factor		1, adjustable between -0,9 to 0,9					
Protections,		Utility monitoring, Islanding Protection, Country configurable Thresholds					
INPUT (PV)							
Maximum DC Power (Module STC)	W	3400	4650	5425	6200	7750	9300
Transformer-less, Ungrounded		Yes					
Maximum input voltage	Vdc	480					
Nominal DC input voltage	Vdc	380					
Maximum Input Current	Adc	6,5	9	10	11,5	13,5	16,5
Reverse-polarity protection		Yes					
Ground-Fault isolation detection		600kΩ Sensitivity					
Maximum inverter efficiency	%	99,2					
European Weighted efficiency	%	98,3	98,8				99
Nighttime Power Consumption	W	<2,5					
INPUT (BATTERY)							
Compatible Batteries		LG Chem RESU7H or LG Chem RESU10H					
Number of batteries per inverter		1					
Max. continuous battery charge / discharge	W	5000					
Max. peak battery charge / discharge (10 sec)	W	7000					
Max. Input voltage	Vdc	480					
Máx. continuous current	Adc	14					
ADDITIONAL FEATURES							
Supported Communication Interfaces ⁽³⁾		RS485, Ethernet, ZigBee (optional), Wi-Fi (optional), Built-in GSM (optional)					
Smart Energy Management		Export Limitation, StorEdge applications					
STANDARD COMPLIANCE							
Safety		IEC-62109-1/2					
Grid Connection Standards		IEC61727, IEC62116, EN 50438, VDE-AR-N-4105, VDE 0126-1-1, UTE_C_15-712, G98, G99, CEI-021, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1					
Emissions		IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B					
RoHS		Yes					
INSTALLATION SPECIFICATIONS							
AC Output	mm	Cable Gland - diameter 9-16					
AC - Supported Wire Cross Section	mm2	1 - 16					
DC Input		1 MC4 pair			2 MC4 pairs		
Dimensions	mm	450 x 370 x 174					
Weight	Kgr	10	10	10	10	11,4	11,9
Noise		< 25					
Cooling		Natural convection					
Noise	dBA	<25					
Operating temperature range	°C	-20 +60 ⁽²⁾ (-40 optional)					
Protection Rating		IP65 - Outdoor and Indoor					
Bracketed mounted		Provided					

⁽¹⁾ Limited to 4600VA when inverter is to Germany

⁽²⁾ De-rating from 50 °C

STOREDGE INTERFACE

SESTI-S4

Battery DC Input

Number of batteries per StorEdge		1
Compatible batteries		LG Chem RESU7H or LG Chem RESU10H
Max. Input Voltaje	Vdc	1000
Max. Input current	Adc	17,5
DC Fuses on Plus and Minus		25 A (field replaceable)

Additional Features

Battery communication interface		RS485
Meter Communication Interface		RS485
Battery Power Supply		No

StorEdge interface power supply

AC input voltage (nominal)	Vac	220 / 230
AC Input voltage range	Vac	184 - 264,5
AC Frequency (Nominal)	Hz	50 / 60 ± 5
Max. AC Input Current	mA	10

Installation Specifications

AC Input gland cable diameter / wire cross section		6 - 13 mm
DC Input		1 MC4 pair
Dimensions (HxWxD)	mm	206,6 X 316 X 117,5
Operating temperature range		-20 to 60 °C
Protection Rating		IP65
Installation		Wall mounted

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