

StorEdge[™] Single Phase Solutions for North America



StorEdge™ Solutions Benefits:

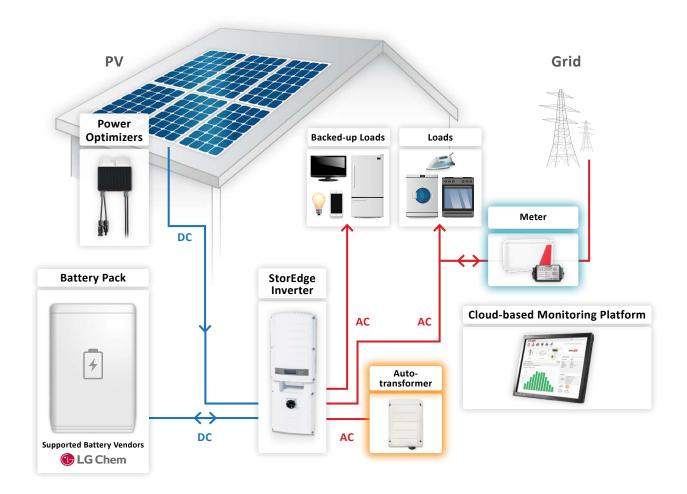
- More Energy DC-coupled architecture stores PV power directly to the battery without AC conversion losses
- Simple Design & Installation single inverter for PV, battery storage, grid-tied and backup applications
- Enhanced Safety no high voltage during installation, maintenance or firefighting
- Full Visibility monitor battery status, PV production, remaining backup power and self-consumption data



Solar StorEdge™ Single Phase Solutions for North America

StorEdge™ Features:

- Smart Energy Management export control, time-of-use shifting, maximized self-consumption, demand response and peak shaving capabilities
- Backup power automatically provides power to backed-up loads in the event of grid interruption
- All-in-one solution uses a single DC optimized phase inverter to manage and monitor both PV generation and energy storage
- Compatible with the LG Chem RESU battery



SolarEdge StorEdge [™] Solutions for North America - Product Selector				
	Grid-tied solar, backup power and smart energy management	Grid-tied solar and backup power	Grid-tied solar and smart energy management	
StorEdge Single Phase Inverter	✓	✓	✓	
Auto-transformer	✓	✓		
Energy Meter	✓		✓	
Battery	✓	✓	✓	



StorEdge™ Single Phase Inverter

for North America SE3800A-US(1), SE7600A-US(1)

- Single inverter for PV, grid-tied storage and backup power
- Includes the hardware required to provide automatic backup power to backed-up loads in case of grid interruption
- Includes all interfaces needed for battery connection
- UL1741 SA certified, for CPUC Rule 21 grid compliance

	SE3800A-US	SE7600A-US	
OUTPUT - AC (LOADS/GRID)			
Rated AC Power Output	3800	7600	VA
Max AC Power Output	4175	8350	VA
AC Output Voltage Min-Nom-Max (L-L) ⁽²⁾	211-2	240-264	Vac
AC Frequency Min-Nom-Max (2)	59.3 -	60 - 60.5	Hz
Maximum Continuous Output Current @240V	16	32	Α
GFDI		1	Α
Utility Monitoring, Islanding Protection, Country Configurable	Y	Yes	
Thresholds Charge Pattern from AC (if Allowed)			
Charge Battery from AC (if Allowed)		Yes	
THD		<3	%
Typical Nighttime Power Consumption		<5	W
OUTPUT - AC (BACKUP POWER)(3)		(4)	
Rated AC Power Output		000 ⁽⁴⁾	VA
Max AC Power Output - Surge (for 10 seconds)		000 ⁽⁴⁾	VA
AC Output Voltage Min-Nom-Max (L-L)		240-264	Vac
AC Output Voltage Min-Nom-Max (L-N)	105-1	120-132	Vac
AC Frequency Min-Nom-Max	55 -	60 - 65	Hz
Maximum Continuous Output Current @240V - Backup Mode		21	A
Max Continuous Output Current per Phase @120V		25	A
GFDI		1	A A
AC Circuit Breaker	```	Yes	
THD		<5	%
Automatic switchover time		<2	sec
INPUT - DC (PV and BATTERY)			
Transformer-less, Ungrounded	\	Yes	
Max Input Voltage		500	Vdc
Nom DC Input Voltage		100	Vdc
Reverse-Polarity Protection		Yes	
Ground-Fault Isolaton Detection		Sensitvity	
Maximum Inverter Efficiency		98	%
CEC Weighted Efficiency			%
,		77.5	/0
INPUT - DC (PV) Maximum DC Power (STC)	5100	10250	W
		10250	
Max Input Current ⁽⁵⁾	13	23	Adc
2-pole Disconnection		Yes	
INPUT - DC (BATTERY)			
Supported Battery Types		n RESU10H	
Number of Batteries per Inverter		or 2 ⁽⁶⁾	
Continuous Power		000	W
Peak Power	7	000	W
Max Input Current	1	7.5	Adc
2-pole Disconnection		Yes	
DC Fuses on Plus and Minus	25A (field	replaceable)	
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485 for battery, RS485, Eth	ernet, Cellular, ZigBee (optional)	
Revenue Grade Data, ANSI C12.20		ional ⁽⁷⁾	
Integrated AC, DC and Communication Connection Unit		Yes	
AC Disconnect		Yes	
Manual Inverter Bypass Switch			
		Yes	
DC Voltage Rapid Shutdown (PV and Battery)		2014 and 2017 690.12 ⁽⁸⁾	

⁽II) These specifications apply to inverters with part numbers SExxxxA-USS2 and connection unit model number BCU-1PH-USS

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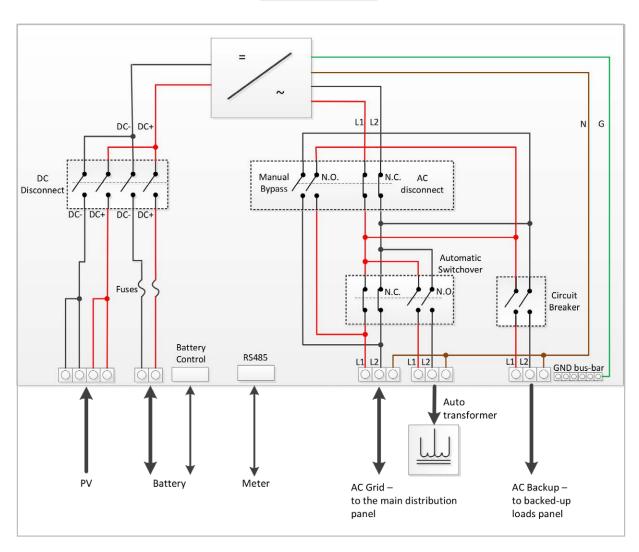


StorEdge™ Single Phase Inverter

for North America SE3800A-US, SE7600A-US

	SE3800A-US	SE7600A-US	
STANDARD COMPLIANCE			'
Safety	UL1741, UL1741 SA, UL1699B, UL1998, UL9540,CSA 22.2		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H		
Emissions	FCC part15 class B		
INSTALLATION SPECIFICATIONS			
AC Output (Loads/Grid) conduit size / AWG range	1" / 14-6 AWG		
AC Output (Backup) conduit size / AWG range	0.75-1" knockouts / 14-6 AWG		
AC Input (Auto-transformer) conduit size / # of	0.75-1" / 1	L4-6 AWG	
Strings / AWG range			
DC Input (PV) conduit size / AWG range	0.75" / 1-2 Strings 14-8 AWG		
DC Input (Battery) conduit size / AWG range	0.75" / 12-10 AWG		
Dimensions with Connection Unit (HxWxD)	37 x 12.5 x 7.2 / 940 x 315 x 184		in / mm
Weight with Connection Unit	58.5 / 26.5		lb / kg
Cooling	Natural convection and inte	ernal fan (user replaceable)	
Noise	<50		dBA
Min - Max Operating Temperature	-13 to +140 / -25 to +60		°F/°C
Protection Rating	NEMA 3R		

Inverter Interface





SEAUTO-TX-5000

	SEAUTO-TX-5000	
ELECTRICAL RATINGS		,
Rated Power - Continuous	5000	
Rated Power - Peak	7600 for 10sec	VA
Output Voltage	120/240V Split Phase	
Max Continuous Output Current per Phase @120V	25	A
Split Phase Imbalance (@Rated Power)	Yes, up to 25A difference between phases	
Thermal Protection	Yes	
INSTALLATION SPECIFICATIONS		
AC Output conduit size / AWG range	0.75" / 14-6 AWG	
Dimensions (HxWxD)	6.7 x 7.9 x 5.5 / 170 x 200 x 140	in / mm
Weight	29.7 / 13.5	lb / kg
Min - Max Operating Temperature	-13 to +140 / -25 to +60	
Protection Rating	NEMA 3R	
Installation	Wall mounted	





SE-MTR240-0-000-S2

For meter specifications refer to: https://www.solaredge.com/sites/default/files/se_electricity_meter_na.pdf



