

SolarEdge Single Phase StorEdge™ Solutions for North America



SolarEdge StorEdge™ Solutions Benefits:

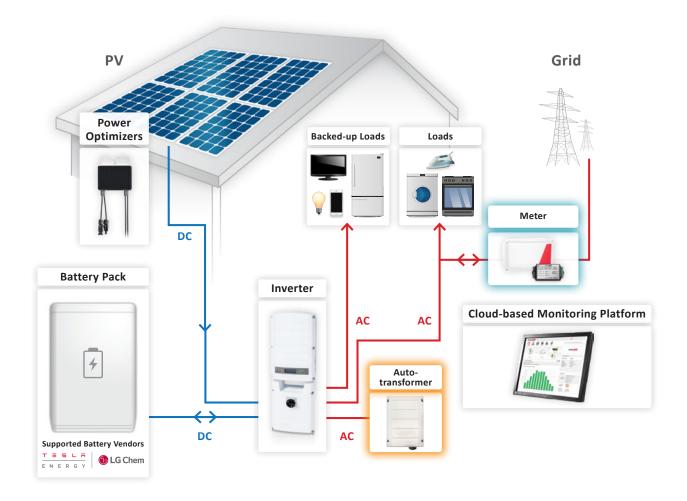
- More Energy DC-coupled architecture stores PV power directly to the battery without AC conversion losses
- Simple Design & Installation single inverter for PV, battery storage, grid-tied and backup applications
- Enhanced Safety no high voltage during installation, maintenance or firefighting
- Full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



Solutions for North America **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 Tesla Powerwall Home Battery and the LG Chem RESU



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	
Single Phase StorEdge™ Inverter	✓	✓	✓	
Auto-transformer	✓	1		
SolarEdge Electricity Meter	✓		✓	
Battery	✓	✓	✓	



SolarEdge Single Phase StorEdge Inverter

for North America 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

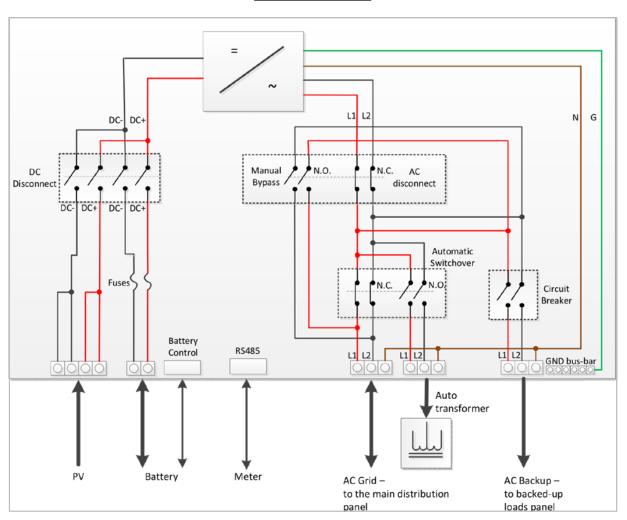
	00A-US		
OUTPUT - AC (LOADS/GRID)	7500		1/4
Rated AC Power Output	7600		VA
Max AC Power Output	8350		VA
AC Output Voltage Min-Nom-Max (L-L) ⁽²⁾	211-240-264		Vac
AC Frequency Min-Nom-Max ⁽²⁾	59.3 - 60 - 60.5		Hz
Maximum Continuous Output Current @240V	32		A
GFDI	1		A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes		
Charge Battery from AC (if Allowed)	Yes		
THD	<3		%
Power factor with rated power	>0.99 (configurable; 0.9 l	eading to 0.9 lagging)	
Typical Nighttime Power Consumption	<5		W
OUTPUT - AC (BACKUP POWER) ⁽³⁾			
Rated AC Power Output	5000		VA
Max AC Power Output - Surge	6600		VA
AC Output Voltage Min-Nom-Max (L-L)	211-240	-264	Vac
AC Output Voltage Min-Nom-Max (L-N)	105-120		Vac
AC Frequency Min-Nom-Max	55 - 60	- 65	Hz
Maximum Continuous Output Current @240V - Backup Mode	21		А
Max Continuous Output Current per Phase @120V	25		А
GFDI	1		А
AC Circuit Breaker	Yes		
THD	<5		%
Power factor with rated power	0.2 leading to 0.2 lagging		
Automatic switchover time	<2		sec
Typical Nighttime Power Consumption			W
INPUT - DC (PV and BATTERY)			
Transformer-less, Ungrounded	Yes		
Max Input Voltage	500		Vdc
Nom DC Input Voltage	400	400	
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600kΩ Sen	sitivity	
Maximum Inverter Effciency	98		%
CEC Weighted Effciency	97.5		%
INPUT - DC (PV)	_		
Maximum DC Power (STC)	10250		W
Max Input Current (5)	23	<u> </u>	
2-pole Disconnection	Yes		
INPUT - DC (BATTERY)			
Continuous Peak Power	3300)	W
Number of Batteries per Inverter ⁽⁶⁾	1	2 for high capacity	
Supported Battery Types	LG Chem RESU 10H	Tesla Powerwall 1	
Manufacture Comment	Tesla Powerwall 1		
Max Input Current	8.5		Adc
2-pole Disconnection	Yes		
DC Fuses on Plus and Minus	12A (field rep	placeable)	
ADDITIONAL FEATURES	DC405 for house - DC405 50	harrat ZiaDaa (- : ii - : -ii)	
Supported Communication Interfaces		RS485 for battery, RS485, Ethernet, ZigBee (optional)	
Battery Power Supply	Yes, 12V / 53W		
Revenue Grade Data, ANSI C12.20	Optional ⁽⁷⁾		
Integrated AC, DC and Communication Connection Unit	Yes		
AC Disconnect	Yes		
Manual Inverter Bypass Switch	Yes		
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to N	Yes, according to NEC 2014 690.12	
Auto-transformer thermal protection	Yes		

⁽¹⁾ These specifications apply to inverters with part numbers SE7600A-USS0XXXXX and connection unit model number BCU-1PH-USS (2) For other regional settings please contact SolarEdge Support (3) Not designed for standalone applications and requires AC for commissioning (4) The rated AC power output is the minimum between S000VA and the battery continuous peak power (5) A higher current source may be used; the inverter will limit its input current to the values stated (6) For two batteries for double power contact SolarEdge technical support (7) Revenue grade inverter P/N: SE7600A-USS02NNG2



SE7600A-USS					
STANDARD COMPLIANCE					
Safety	UL1741, UL1699B, UL1998, UL9540, CSA 22.2				
Grid Connection Standards	IEEE1547, Rule 21, Rule 14				
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 / AWG range	0.75-1" / 14-6 AWG				
DC Input (PV) conduit size / # of Strings / AWG range	0.75" / 1-2 Strings 14-8 AWG				
DC Input (Battery) conduit size / AWG range	0.75" / 16-10 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 internal 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	А
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	°F/°C
Protection Rating	NEMA 3R	
Installation	Wall mounted	





SolarEdge Electricity Meter for North America SE-MTR240-0-000-S2

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



