

SolarEdge Single Phase StorEdge™ Solutions for North America



SolarEdge StorEdge™ Solutions Benefits:

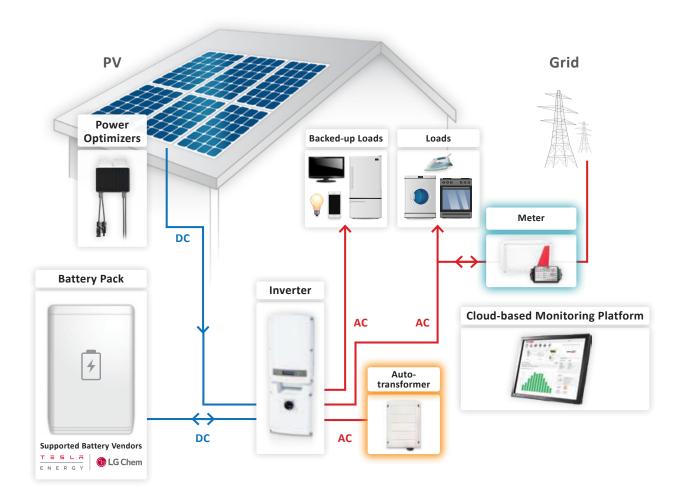
- More Energy DC-coupled architecture stores PV power directly to the battery without AC conversion losses
- Simple Design & Installation single inverter for PV, battery storage, grid-tied and backup applications
- Enhanced Safety no high voltage during installation, maintenance or firefighting
- Full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



Solar Edge Single Phase Stor Edge™ 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	✓	✓			
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

OUTDUT AC (LOADS (CDID)	Lower Pov	ver Output	Higher Pov	ver Output	
OUTPUT - AC (LOADS/GRID)		7/	500		VA
Rated AC Power Output				• • • • • • • • • • • • • • • • • • • •	
Max AC Power Output			350	• • • • • • • • • • • • • • • • • • • •	VA
AC Output Voltage Min-Nom-Max (L-L) ⁽²⁾			40-264		Vac
AC Frequency Min-Nom-Max ⁽²⁾			60 - 60.5	• • • • • • • • • • • • • • • • • • • •	Hz
Maximum Continuous Output Current @240V		•	32	• • • • • • • • • • • • • • • • • • • •	ΑΑ
GFDI			1	• • • • • • • • • • • • • • • • • • • •	ΑΑ
Utility Monitoring, Islanding Protection, Country Configu-		Y	'es		
rable Thresholds Charge Battery from AC (if Allowed)			·····	• • • • • • • • • • • • • • • • • • • •	
			/es <3	• • • • • • • • • • • • • • • • • • • •	
FHD Power factor with rated power			9 leading to 0.9 laggir		%
Typical Nighttime Power Consumption		•	<5	ig)	W
OUTPUT - AC (BACKUP POWER)(3)		•	<u> </u>		VV
Rated AC Power Output		EO	00 (4)		VA
Max AC Power Output - Surge			00 (4)	• • • • • • • • • • • • • • • • • • • •	VA VA
AC Output Voltage Min-Nom-Max (L-L)			40-264	• • • • • • • • • • • • • • • • • • • •	Vac
		•		• • • • • • • • • • • • • • • • • • • •	
AC Output Voltage Min-Nom-Max (L-N)			.20-132 60 - 65	• • • • • • • • • • • • • • • • • • • •	Vac
AC Frequency Min-Nom-Max Maximum Continuous Output Current @240V - Backup Mode		•		• • • • • • • • • • • • • • • • • • • •	Hz
Max Continuous Output Current @240V - Backup Mode Max Continuous Output Current per Phase @120V		*	21		ΑΑ
	25			ΑΑ	
GFDI	1			Α.	
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		•	<5		W
NPUT - DC (PV and BATTERY)	I		,		1
Transformer-less, Ungrounded			es .	• • • • • • • • • • • • • • • • • • • •	
Max Input Voltage		•	00	• · · · · · · · · · · · · · · · · · · ·	Vdo
Nom DC Input Voltage	400		• • • • • • • • • • • • • • • • • • • •	Vdo	
Reverse-Polarity Protection			es .	• • • • • • • • • • • • • • • • • • • •	
Ground-Fault Isolation Detection			Sensitivity	• • • • • • • • • • • • • • • • • • • •	
Maximum Inverter Efficiency	98		%		
CEC Weighted Efficiency	97.5			%	
NPUT - DC (PV)	T.				,
Maximum DC Power (STC)	10250		W		
Max Input Current ⁽⁵⁾	23		Ado		
2-pole Disconnection	Yes				
NPUT - DC (BATTERY)	T				
Continuous Peak Power		800	66	,	W
Number of Batteries per Inverter	1	2 for high capacity	1	2 for high power and high capacity	
Supported Battery Types	Tesla Powerwall 1	Tesla Powerwall 1	LG Chem RESU10H	Tesla Powerwall 1 (any combination other than B+B)	
Max Input Current	Ω	.5	17		Ado
2-pole Disconnection		***************************************	/es		Aut
DC Fuses on Plus and Minus	12Δ (field r	replaceable)	25A (field ro	enlaceable)	·····
ADDITIONAL FEATURES	12A (IICIU I	еріасеавіеј	ZJA (IIEIU II	еріасеавіеј	
supported Communication Interfaces	RSAS	R5 for hattery RS/185	Ethernet ZigRee (ont	ional)	
Battery Power Supply	RS485 for battery, RS485, Ethernet, ZigBee (optional)				
Revenue Grade Data, ANSI C12.1	Yes, 12V / 53W Optional ⁽⁶⁾			ļ	
		*		• • • • • • • • • • • • • • • • • • • •	ļ
ntegrated AC, DC and Communication Connection Unit	Yes			· · · · · · · · · · · · · · · · · · ·	
AC Disconnect	Yes			ļ	
Manual Inverter Bypass Switch	Yes			ļ	
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014 and 2017 690.12			ļ	
Auto-transformer thermal protection		Υ	<u>'es</u>		

⁽¹⁾ These specifications apply to inverters with part numbers SE7600A-USS2XXXXX 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 the AC Power Output 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) Revenue grade inverter P/N: SE7600A-USS20NNM2

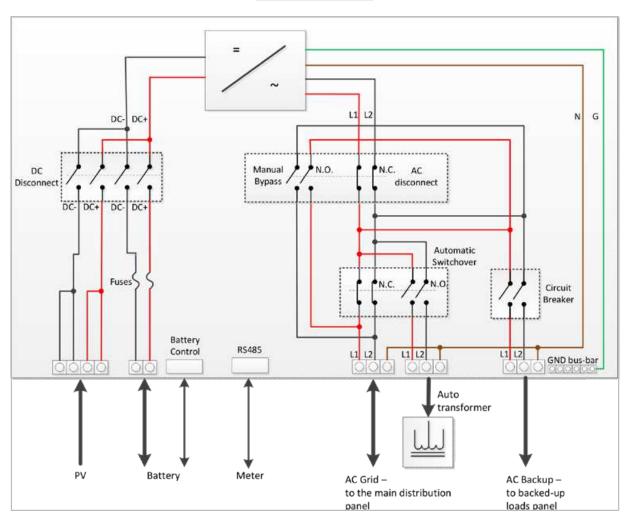


SolarEdge Single Phase StorEdge Inverter

for North America SE7600A-US

	Lower Power Output	Higher Power Output	
STANDARD COMPLIANCE			
Safety	UL1741, UL1699B, UL1998, 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 / AWG range	0.75" / 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	VA
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	°F/°C
Protection Rating	NEMA 3R	
Installation	Wall mounted	





For meter specifications refer to: http://www.solaredge.us/files/pdfs/products/se_electricity_meter_na.pdf



