



SolarEdge Single Phase StorEdge 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⁾	211-240-264		Vac
AC Frequency Min-Nom-Max ⁽³⁾	59.3 - 60 - 60.5		Hz
Maximum Continuous Output Current @240V	16	32	A
GFDI	1		A
Utility Monitoring, Islanding Protection, Country Configurable	Yes		
Thresholds			
Charge Battery from AC (if Allowed)	Yes		
THD	<3		%
Typical Nighttime Power Consumption	<5		W
OUTPUT - AC (BACKUP POWER)⁽⁴⁾			
Rated AC Power Output	5000 ⁽⁴⁾		VA
Max AC Power Output - Surge	6600 ⁽⁴⁾		VA
AC Output Voltage Min-Nom-Max (L-L)	211-240-264		Vac
AC Output Voltage Min-Nom-Max (L-N)	105-120-132		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
AC Circuit Breaker	Yes		
THD	<5		%
Automatic switchover time	<2		sec
Typical Nighttime Power Consumption	<5		W
INPUT - DC (PV and BATTERY)			
Transformer-less, Ungrounded	Yes		
Max Input Voltage	500		Vdc
Nom DC Input Voltage	400		Vdc
Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	600kΩ Sensitivity		
Maximum Inverter Efficiency	98		%
CEC Weighted Efficiency	97.5		%
INPUT - DC (PV)			
Maximum DC Power (STC)	5100	10250	W
Max Input Current ⁽⁵⁾	13	23	Adc
2-pole Disconnection	Yes		
INPUT - DC (BATTERY)			
Supported Battery Types	LG Chem RESU10H		
Number of Batteries per Inverter	1 or 2 ⁽⁶⁾		
Continuous Power	5000		W
Peak Power	7000		W
Max Input Current	17.5		Adc
2-pole Disconnection	Yes		
DC Fuses on Plus and Minus	25A (field replaceable)		
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485 for battery, RS485, Ethernet, Cellular, ZigBee (optional)		
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 NEC 2014 and 2017 690.12		
Auto-transformer thermal protection	Yes		

⁽¹⁾ These specifications apply to inverters with part numbers SExxxxA-US52 and connection unit model number BCU-1PH-US5
⁽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⁾ When connecting two LG Chem batteries, each battery must have a different part number; supporting SolarEdge firmware required
⁽⁷⁾ Revenue grade inverter P/N: SExxxxA-US52ONHY2



SolarEdge Auto-transformer 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	
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



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REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

DATE: 01/06/2020

PROJECT NAME & ADDRESS

DWIGHT BLAKEY
 RESIDENCE
 15024 ASHTON RD,
 DETROIT, MI 48223

DESIGNED BY
 PHS

SHEET NAME
 EQUIPMENT
 SPECIFICATION

SHEET SIZE
 ANSI B
 11" X 17"

SHEET NUMBER
 PV-8