Single Phase Energy Hub Inverter with Prism Technology

for Australia

SE3000H-AUS / SE4000H-AUS / SE5000H-AUS / SE6000H-AUS / SE8250H-AUS / SE10000H-AUS



STOREDGE®

Optimized battery storage with HD-Wave technology

- Single string design for inverters up to 5kW AC
- Record-breaking 99% weighted efficiency with 200% DC oversizing, for higher energy yield
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home backup
 - Built-in consumption monitoring
- Multi-inverter, scalable StorEdge® solution

- Advanced safety features including SafeDC™ and integrated arc fault protection
- Built-in panel-level monitoring
- Rapid inverter commissioning via smartphone using SetApp
- Small, lightweight, and easy to install
- ✓ IP65-rated, for indoor and outdoor installations



Single Phase Energy Hub Inverter with Prism Technology

for Australia

SE3000H-AUS / SE4000H-AUS / SE5000H-AUS / SE6000H-AUS / SE8250H-AUS / SE10000H-AUS⁽¹⁾

	SE3000H-AUS	SE4000H-AUS	SE5000H-AUS	SE6000H-AUS	SE8250H-AUS	SE10000H-AUS	UNITS	
OUTPUT - AC ON GRID	ı				I			
Rated AC Power	3000	4000	5000	6000	8250	10000	VA	
Maximum AC Power Output	3000	4000	5000	6000	8250	10000	VA	
AC Output Voltage (Nominal)	220 / 230							
AC Output Voltage Range	184 - 264.5							
AC Frequency Range (nominal)	50/60 ± 5							
Maximum Continuous Output Current	14	19	23	28	38	46	А	
Total Harmonic Distortion (THD)		1	<	<3	'	ı	%	
Power Factor	1, adjustable -0.8 to 0.8							
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
Charge Battery from AC (if Allowed)	Yes							
Typical Nighttime Power Consumption	<2.5							
OUTPUT - AC BACKUP(2)								
Rated AC Power in Backup Operation ⁽³⁾	3000	4000	5000	6000	8250	10000	W	
AC Output Voltage (Nominal)	220 / 230							
AC Output Voltage Range	184-264.5							
AC Frequency			50/6	0 ± 5			Hz	
Maximum Continuous Output Current in Backup Operation ⁽⁴⁾	14	19	23	28	38	46	А	
INPUT - DC (PV AND BATTERY)								
Transformer-less, Ungrounded			Y	'és				
Max Input Voltage	480							
Nom DC Input Voltage	380 400							
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum DC PV Power	6000	8000	10000	12000	16500	20000	W	
Maximum Input Current ⁽⁵⁾	8.5	11	14	16.5	22.5	27.5	Adc	
Maximum Inverter Efficiency	99.2							
European Weighted Efficiency	98.8		99				%	
2-pole Disconnection	Yes							
BATTERY STORAGE	'							
Supported Battery Types	SolarEdge Battery, LG RESU10H Prime, LG RESU16H Prime							
Number of Batteries per Inverter	Up to 3 SolarEdge Batteries or up to 2 LG Prime batteries ⁽⁶⁾							
Continuous Power	Up to inverter rated power							
SMART ENERGY CAPABILITIES			·	·			-	
Consumption Metering	Built-in ⁽⁷⁾							
Battery Storage	In backup: Up to 3 inverters, 88.2kWh backup capacity							

⁽¹⁾ These specifications apply to inverters with part numbers SExxxxH-AUS3xxxxx and connection unit model number DCD-1PH-AU-PxH-F-x

⁽²⁾ Not designed for standalone applications and requires AC for commissioning

⁽³⁾ Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated

⁽⁴⁾ Rated current in backup operation are valid for installations with multiple inverters. For a single backup inverter operation, rated current in Backup is 90% of the value stated

⁽⁵⁾ A higher current source may be used; the inverter will limit its input current to the values stated

⁽⁶⁾ Support for 2 LG Prime batteries with supported inverter firmware

⁽⁷⁾ For consumption metering current transformers should be ordered separately: SE-CTML-0350-070 or SE-ACT-0750-100 or SE-ACT-0750-250-C6.

Single Phase Energy Hub Inverter with Prism Technology

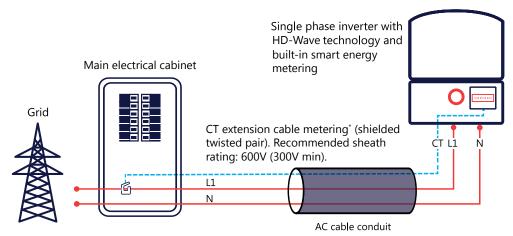
for Australia

SE3000H-AUS / SE4000H-AUS / SE5000H-AUS / SE6000H-AUS / SE8250H-AUS / SE10000H-AUS⁽¹⁾

	SE3000H-AUS	SE4000H-AUS	SE5000H-AUS	SE6000H-AUS	SE8250H-AUS	SE10000H-AUS	UNITS		
ADDITIONAL FEATURES									
Supported Communication Interfaces		PS/85 - modb	us devices PS/85 - SI	Enrotocol Ethernet V	Wi Fi EnergyNet				
Integrated AC, DC and Communication Connection Unit	RS485 - modbus devices, RS485 - SE protocol, Ethernet, Wi Fi, EnergyNet yes								
Inverter Commissioning	with the SetApp mobile application using built-in Wi-Fi Access Point for local connection								
STANDARD COMPLIANCE									
Safety	IEC-62103 (EN50178), IEC-62109, AS/NZS3100								
Grid Connection Standards	AS/NZS4777								
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12								
INSTALLATION SPECIFICATIONS	•								
AC Output Conduit Size / Wire Cross Section		32mm Maximum / 1-16 mm ²							
EV AC Output Conduit Size / Wire Cross Section	32mm Maximum / 1-16 mm ²								
DC Input Conduit Size / Wire Cross Section	32mm Maximum / 1-16 mm ²								
Dimensions with Connection Unit (HxWxD)	450 X 370 X 174 540 x 370 x				70 x 185				
Weight with Connection Unit		<	:15		<	20			
Communication Glands	2								
Noise	<25								
	<50								
Cooling	Natural Convection								
Operating Temperature Range	-40 to +60 ⁽⁸⁾								
Protection Rating	IP65 - Outdoor and Indoor								

- (1) These specifications apply to inverters with part numbers SExxxxH-AUS3xxxxx and connection unit model number DCD-1PH-AU-PxH-F-x
- (2) Not designed for standalone applications and requires AC for commissioning
- (3) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated
- (4) Rated current in backup operation are valid for installations with multiple inverters. For a single backup inverter operation, rated current in Backup is 90% of the value stated
- (5) A higher current source may be used: the inverter will limit its input current to the values stated
- (6) Support for 2 LG Prime batteries with supported inverter firmware
- (7) For consumption metering current transformers should be ordered separately: SE-CTML-0350-070 or SE-ACT-0750-100 or SE-ACT-0750-250-C6.
- (8) Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

Connecting CTs to the Revenue Grade and Consumption Meter



^{*} One CT for import/export or consumption metering

