# Single Phase Energy Hub Inverter with Prism Technology

# for Australia

SE3000H / SE4000H / SE5000H / SE6000H / SE8250H / SE10000H



# HOME BACKUP

# Optimised 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 enabling:
  - Full home backup power
  - High efficiency DC-coupled storage
  - Backup generator connection
  - EV charging, with SolarEdge Smart EV Charger
- Built-in consumption monitoring
- Multi-inverter, scalable storage solution

- Advanced safety features including SafeDC™, rapid shutdown, 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



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

	SE3000H	SE4000H	SE5000H	SE6000H	SE8250H	SE10000H	UNITS		
OUTPUT - AC ON GRID				l	l				
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)	<3								
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 <sup>(2)</sup>									
Rated AC Power in Backup Operation <sup>(3)</sup>	3000	4000	5000	6000	7400	9000	W		
AC Output Voltage (Nominal)	220 / 230								
AC Output Voltage Range	184-264.5								
AC Frequency	50/60 ± 5								
Maximum Continuous Output Current in Backup Operation <sup>(4)</sup>	14	19	23	28	34	41.5	А		
INPUT - DC (PV AND BATTERY)		-	'	1			'		
Transformer-less, Ungrounded	Yes								
Max Input Voltage	480								
Nom DC Input Voltage	380 400						Vdc		
Reverse-Polarity Protection	Yes								
Ground-Fault Isolation Detection	600kΩ Sensitivity								
Maximum DC PV Power	6000	8000	10000	12000	16500	20000	W		
Maximum Input Current <sup>(5)</sup>	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 Energy Bank Battery, LG RESU10H Prime, LG RESU16H Prime								
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank Batteries or up to 2 LG Prime batteries <sup>(6)</sup>								
Continuous Power	Up to inverter rated power								
SMART ENERGY CAPABILITIES									
Consumption Metering	Built-in <sup>(7)</sup>								
Battery Storage	In backup: Up to 3 inverters, 88.2kWh with SolarEdge Energy Bank Battery								
EV Charging	Smart EV ready - separate EV charger and cabling required								

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

<sup>(2)</sup> Not designed for standalone applications and requires AC for commissioning

<sup>(3)</sup> 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 stated value

<sup>(4)</sup> 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 stated value

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

<sup>(6)</sup> Support for 2 LG Prime batteries with compatible inverter firmware

<sup>(7)</sup> For consumption metering current transformers should be ordered separately: SE-CTML-0350-070 or SE-ACT-0750-100 or SE-ACT-0750-250

# Single Phase Energy Hub Inverter with Prism Technology

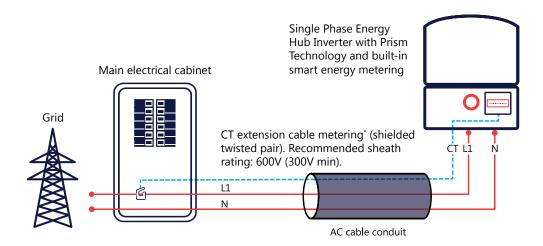
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	SE3000H	SE4000H	SE5000H	SE6000H	SE8250H	SE10000H	UNITS			
ADDITIONAL FEATURES		1	'	1	1	'	1			
Supported Communication Interfaces	RS485 - Modbus devices, RS485 - SE protocol, Ethernet, Wi-Fi, EnergyNet									
Integrated AC, DC and Communication Connection Unit	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 and DC Input Conduit Size / Wire Cross Section	32 mm Maximum / 1-10 mm <sup>2</sup>									
Dimensions with Connection Unit (HxWxD)	450 X 370 X 174 540 x 370				370 x 185					
Weight with Connection Unit		<	15		<	20				
Communication Glands	2									
Noise		<	25		<	50	dBA			
Cooling	Natural convection									
Operating Temperature Range	-40 to +60 <sup>(8)</sup>									
Protection Rating	IP65 - Outdoor and Indoor									

<sup>(8)</sup> Full power up to at least 50°C; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note.pdf

### Connecting CTs to the Revenue Grade and Consumption Meter



<sup>\*</sup> One CT for import/export or consumption metering

