

# SolarEdge CSS-OD 90

## For Australia

### Battery Cabinet 90 kWh

### Battery Inverter BA 50 kW

CSS-OU-090 / PCS050BA

10  
YEAR  
WARRANTY



## Energy storage solution for commercial and industrial sites

### Easy Installation and Deployment

- Pre-assembled and factory-tested for quick setup
- Compact cabinet that can be installed indoors or outdoors, with top-lifting eye bolts for ease of placement
- SolarEdge Go software accelerates configuration and commissioning
- Scale up to 2 MWh storage capacity

### Optimized Savings

- Powered by SolarEdge ONE for C&I that is designed to optimize site energy production, storage, and consumption
- Supports multiple storage optimization modes, including: self-consumption, peak shaving, tariff optimization, export and import limits\*

### Built-in Safety and Resilience

- Integrated fire detection and suppression mechanisms
- Built-in electrical safeguards including reverse polarity protection, earth fault, leakage fault, surge protection
- Multi-sensor physical security: flood, door, and heat sensors

### Single Trusted Vendor

- PV, storage and energy management systems from a single vendor
- One source for warranty, support, and training
- 10-year product and performance warranty

\* Some optimization features may not be available in all regions. Possible savings may vary based on applicable tariffs and site/installation conditions.

# SolarEdge CSS-OD

## Battery Cabinet 90 kWh for Australia

### CSS-OU-090

BATTERY CABINET 90 kWh	CSS-OU-090	Units
<b>TECHNICAL SPECIFICATIONS</b>		
Cell Chemistry	LFP	
Total Battery Capacity	89.6	kWh
Usable Battery Capacity	85.12	kWh
Battery Module Total Capacity	17.92	kWh
Number of Modules	5	
Maximum C-Rate (charge/discharge)	0.5	C
Operating Voltage	285-360	V <sub>dc</sub>
Nominal Voltage	320	V <sub>dc</sub>
AC Auxiliary Input <sup>(1)</sup>	220+/-15% /50	V <sub>ac</sub> / Hz
<b>MECHANICAL SPECIFICATIONS</b>		
Battery Cabinet Dimensions (W x D x H)	1050 x 1371 x 2085	mm
Battery Cabinet Weight	1233	kg
Ingress Protection	IP54	
Corrosion Protection	C4	
Cooling Method	Built-in HVAC	
Noise <sup>(2)</sup>	<70	dBA
<b>STANDARD COMPLIANCE</b>		
Safety	IEC 62619, including 7.3.3, EC 62040, IEC 62477 IEC 62619, IEC 63056, UL9540A	
Ingress Protection	IEC 60529	
Transportation	UN 38.3	
Emissions	EN / IEC 61000-6-2, EN / IEC 61000-6-4	
<b>ENVIRONMENTAL SPECIFICATIONS</b>		
Operating Temperature <sup>(3)</sup>	-30 to +50 (>45 derating)	°C
Operating Humidity	5 – 95 (non-condensing)	%
Maximum Operating Altitude	3000	m
Storage Temperature	-30 to +50	°C
<b>COMMUNICATION</b>		
Communication Interfaces	CAN, RS485, Ethernet	
<b>SAFETY</b>		
Fire Safety	Heat & humidity sensors	
	Photoelectric smoke detector	
	Cabinet level 2x fire extinguishers + support fire-fighting hose connector	
	Energy Module integrated with suppression agent (NOVEC 1230)	
Electrical Safety	Reverse polarity protection	
	Earth fault and leakage fault detection	
	AC and DC surge protection	
Operator Safety	Toxic gas detector (CO)	
Emergency Power Off Pushbutton	Integrated	
Flood Detector	Integrated	
Door Contact Switch	integrated	
Pressure Relief Valves and Deflagration Panels	Integrated	
<b>TRANSPORTATION</b>		
Forklift	Integrated slots	
Crane	Integrated/supplied 4 eye bolts	
<b>WARRANTY<sup>(4)</sup></b>		
System	10 years	
Performance	7000 cycles or 10 years up to 70% SoH	
<b>ADDITIONAL INFORMATION</b>		
Country of Manufacture	China	

(1) Single-phase power is required for Battery Cabinet HVAC operation.

(2) Measured one meter from a single CSS-OD Battery Cabinet and Battery Inverter.

(3) Power derating may also apply in the temperature range of -30 to -10 °C.

(4) For warranty details, conditions, and exclusions, refer to the Limited Product Warranty for SolarEdge CSS-OD.

# SolarEdge CSS-OD

## Battery Inverter BA 50 kW

### For Australia

#### PCS050BA

BATTERY INVERTER 50 kW <sup>(5)</sup>	PCS050BA	Units
<b>AC SPECIFICATIONS</b>		
Rated AC Active Power Output <sup>(6)</sup>	49.9	kW
Maximum AC Apparent Output Power	49.9	kVA
Maximum Charge / Discharge Power	49.9	kW
Maximum Continuous Input / Output Current (per phase)	72 / 72	A <sub>ac</sub>
Maximum Inverter Efficiency	97.5	%
AC Input Voltage	230 / 400	V <sub>ac</sub>
AC Output Voltage – Line to Line / Line to Neutral (Nominal)	400 / 230	V <sub>ac</sub>
AC Output Voltage – Line to Line / Line to Neutral (Range)	340 – 440 / 196~253	V <sub>ac</sub>
AC Frequency	50 / 60 ± 5	Hz
AC Line connections	4W + PE	
Total Harmonic Distortion	<3	%
Power Factor Range	-0.8~0.8	
<b>DC SPECIFICATIONS</b>		
Maximum DC Input Power	55	kW
Maximum DC Current	80 x 2	Adc
Number of DC Input Interfaces	2	
<b>SAFETY FEATURES</b>		
Reverse Polarity Protection	Yes	
Grid Monitoring	Yes	
Earth Fault Protection	Yes	
Earth Leakage Protection	Yes	
DC Surge Protection	Type III integrated	
Battery Input (DC/DC) Isolation	Yes	
AC Surge Protection	Type II integrated	
Fault Current Protection per Phase on grid	2x 160A at grid input busbar	A
Overvoltage Category (Mains)	OVC III	
Protective Class	I	
Active Anti-Islanding Method	Yes	
<b>COMMUNICATION</b>		
Communication Port / Protocol	RS-485 / CAN	
<b>MECHANICAL SPECIFICATIONS</b>		
Inverter Dimensions (W x D x H)	635 x 315 x 950	mm
Inverter Weight	80	kg
Ingress Protection	IP66	
Cooling Method	Air Cooling	
AC Input Cable Cross Section <sup>(7),(8)</sup> / Lug Size	25 – 35 mm <sup>2</sup> / M6	
<b>STANDARD COMPLIANCE</b>		
Safety	IEC 62109-1, IEC 62109-2	
Emissions	IEC 61000-6-4, IEC 61000-3-11, EN/IEC 61000-3, CISPR 11	
Grid Connection	AS/NZS 4777:2020	
<b>ENVIRONMENTAL SPECIFICATIONS</b>		
Operating Temperature	-25 to +60 (derating >45)	°C
Operating Humidity	0 – 100 (non-condensing)	%
Maximum Operating Altitude	4000 (>3000m derating)	m
<b>WARRANTY<sup>(9)</sup></b>		
System	10 years	
<b>ADDITIONAL INFORMATION</b>		
Country of Manufacture	China	

(5) It is required to have an AC-coupled SolarEdge PV system at the site.

(6) When coupled with Battery Cabinet CSS-OD 90, the Max power is limited by the Max C rating, 0.5C, therefore cannot increase above 45kW

(7) Only copper cables should be used.

(8) It is recommended to use flexible conductors: multi-stranded, class 6.

(9) For warranty details, conditions, and exclusions, refer to the Limited Product Warranty for SolarEdge CSS-OD