WEG BESS C&I solutions

Industrial Motors

Commercial & Appliance Motors

Automation & Systems

Energy

Transmission & Distribution

Coatings



Driving efficiency and sustainability

www.weg.net

WEG ESS C&I – liquid cooled (125 kW – 261 kWh)



System model	WEG C&I 125 kW
System information	
Rated AC power	125 kW
Rated capacity	261 kWh
Battery information	
Cell type	LFP
Cell capacity	314 Ah (1P260S)
Charge & discharge rate	0.5 C
Depth of discharge (DoD)	98%
PCS	
AC power	125 kW
Operation mode	On-grid & Off-grid
Rated grid/islanded voltage	400 V_{AC} (3P4L)
Rated grid frequency	50 Hz – 60 Hz
Specifications	
Protection degree	IP55
Noise > noise level	75 dB
Operating temperature range	-30 °C~55 °C (>45 °C derating)
Anti-corrosion degree	C3 (C5 available)
Dimensions (WxHxD) - weight	1,050 x 2,450 x 1,520 mm – 2.6 T
Cooling type	Intelligent liquid cooling
Fire suppression system	Aerosol + water
Certifications	IEC 62619, IEC 63056, IEC 61000, IEC 62477, UN 38.3, IEC 62040, UL 9540A, CEC list

Key features:

- Highly integrated (all in one product)
- Safe and reliable
- Smart and easy O&M

On grid / off grid STS BOX – static transfer switch

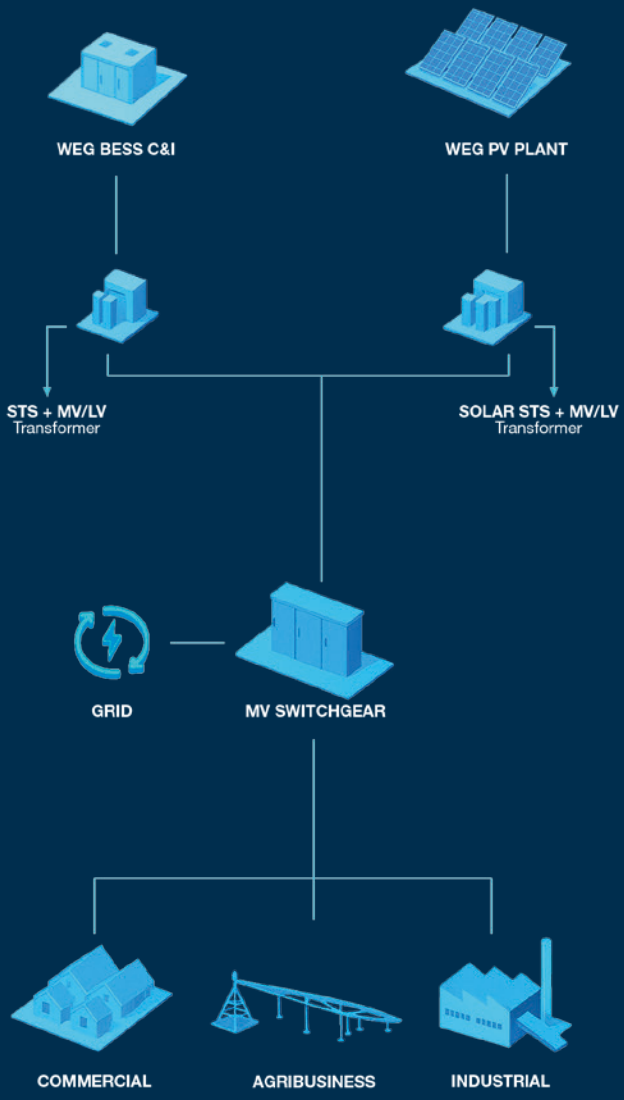


Category	Parameter	STS 250 kW	STS 500 kW	STSE 430 kW
System info	Switching time	< 20ms	< 20ms	< 20ms
	UPS power	1 kVA/220 V	1 kVA/220 V	-
Grid side	Rated voltage	400 V (±15%)	400 V (±15%)	400 V (±15%)
	Rated power	250 kW	500 kW	430 kW
	Rated current	360 A	720 A	310 A
Load side	Rated power	125 kW	250 kW	215 kW
	Rated current	180 A	360 A	310 A
PCS side	Rated power	125 kW	250 kW	100 kW
General	Dimensions	900x1,550 x1,000	900x1,550 x1,000	840x1,060 x216
	IP level	IP54	IP54	IP20

Key features:

- Safe and reliable
- Compact & integrated
- Long service life (up to 20,000 cycles)
- Flexible customization
- Fast response

BESS C&I toppology



Main applications:

- Backup power
- Peak-shaving
- Valley filling

WEG C&I success cases

Over **100** units sold globally within a year of launch.



BESS C&I + STS
Porto Belo – SC – Golf Resort
Backup + decarbonization
System size: 100 kW – 215 kWh (two points at the same plant)



BESS C&I + STS
Gas station + electric station - TO
Backup + EV charge + load shift
System size: 300 kW – 645 kWh



BESS C&I
Serra da Saudade - MG
Microgrid + reactive grid regulation
System size: 500 kW – 2,500 kWh



BESS C&I + STS
Electric station - RJ
Backup + EV charging
System size: 100 kW – 215 kWh

About WEG

As the global transition toward BESS and solar energy accelerates, WEG's proven expertise and advanced technologies in renewable generation and distribution have never been more vital. WEG offers comprehensive, end-to-end solutions ranging from all-in-one BESS, PCS and battery modules to solar panels, inverters, transformers, switchgears and substations — all backed by full engineering, integration and software application.

Supported by a global network of suppliers and a strong base of qualified and certified system integrators, WEG provides the capability and flexibility to empower large utilities, industries of all sizes and sectors, small businesses and residential customers.



TRACK RECORD – Project distribution, EPC and BESS

+17 GW supplied worldwide

- More than **16 GW** of solar solutions distributed in Brazil. More than **2 GW** of EPC projects.
- More than **400 MW** of solar solutions distributed in Colombia.
- More than **400 MW** of solar solutions distributed in Mexico.
- More than **65 MW** of inverters distributed in Türkiye in 2023.
- More than **40 MW** in solar solutions supplied in South Africa.

+270 MWh supplied worldwide

Brazil, USA, Colombia, Argentina, South Africa, Australia, Finland, Mexico



For WEG's worldwide
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The values presented may be subjected to adjustments without prior notice.
This information contained has strictly indicative purposes.