



Technical Specifications

EM-CAB-WH-01

emaldo

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AC input

Rated Input Power	10800VA
Rated Input Current	15.6A*3
Rated Input Voltage	400Vac
Rated Input Frequency	50/60Hz
Max Input Current	15.8A*3

AC output (on-grid)

Rated output Apparent Power	10800VA
Rated output Current	15.6A*3
Rated output Voltage	400Vac
Rated output Frequency	50/60Hz
Max output Current	15.8A*3
Max power Factor	0.8i...1...0.8c
THCv	<3%

AC output (off-grid)

Rated output apparent power	10800VA
Rated output Current	15.6A*3
Max output Current	15.8A*3
Rated output Voltage	400Vac
Rated output frequency	50/60 (± 0.5)Hz

PV input

Max Input Power	10800W
Max Input Open-circuit Voltage	550Vdc
MPPT Voltage Range	90-500Vdc
Start-up Voltage	100Vdc
Max Input Current	13A*3
Max Short-circuit Input Current	18A*3
MPPT Input String Number	3

EV output

Rated Output Power	10800W
Rated Output Current	15.6A*3
Rated Output Voltage	400Vac
Interface Type	IEC Type2 (IEC62169)
Leakage protection	Integrated (external)

Battery

Battery type	LFP (LiFePO4)
Battery capacity 1 pcs.	3072 Wh
Rated Battery Voltage	51.2V
Battery Voltage Range	40V~58.8V
Max Charging Current	100A (depend on number of battery module)
Max Discharging Current	180A (depend on number of battery module)

Efficiency

Max efficiency	97.00%
European efficiency	96.00%

Protection

Anti-islanding protection	Integrated
Reverse connection protection of photovoltaic input	Integrated
Insulation impedance detection	Integrated
Residual current detection	Integrated
Output overcurrent protection	Integrated
Output short circuit protection	Integrated
Output overvoltage protection	Integrated

General

Operating temperature (Celcius)	-20-50 °C
Relative humidity	0-95%
Altitude	2000m
Cooling	Forced air
Noise	<50dB
Display	E-INK + LED + APP
Communication	RS485 (Smartmeter)
4G/WiFi/Bluetooth	YES/YES/YES
Topology	Transformerless
Weight (kg)	215 kg (including 3 battery modules)
Dimensions (W*H*D mm)	700*1520*327 mm



Disclaimer

The product specifications provided herein are subject to change without notice, and while we endeavor to maintain accuracy, Emaldo Power Core cannot guarantee completeness, accuracy, or reliability. Performance metrics are based on typical scenarios and actual performance may vary. Compatibility with third-party products is not guaranteed. The limited warranty terms, proper installation by a qualified electrician, and adherence to safety practices are essential. Energy data accuracy is aimed for but not guaranteed. Technical support availability varies. Emaldo Power Core is not liable for any damages from product use. Specifications and features are subject to change. Usage implies agreement to these terms. For legal compliance, consult professionals.

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