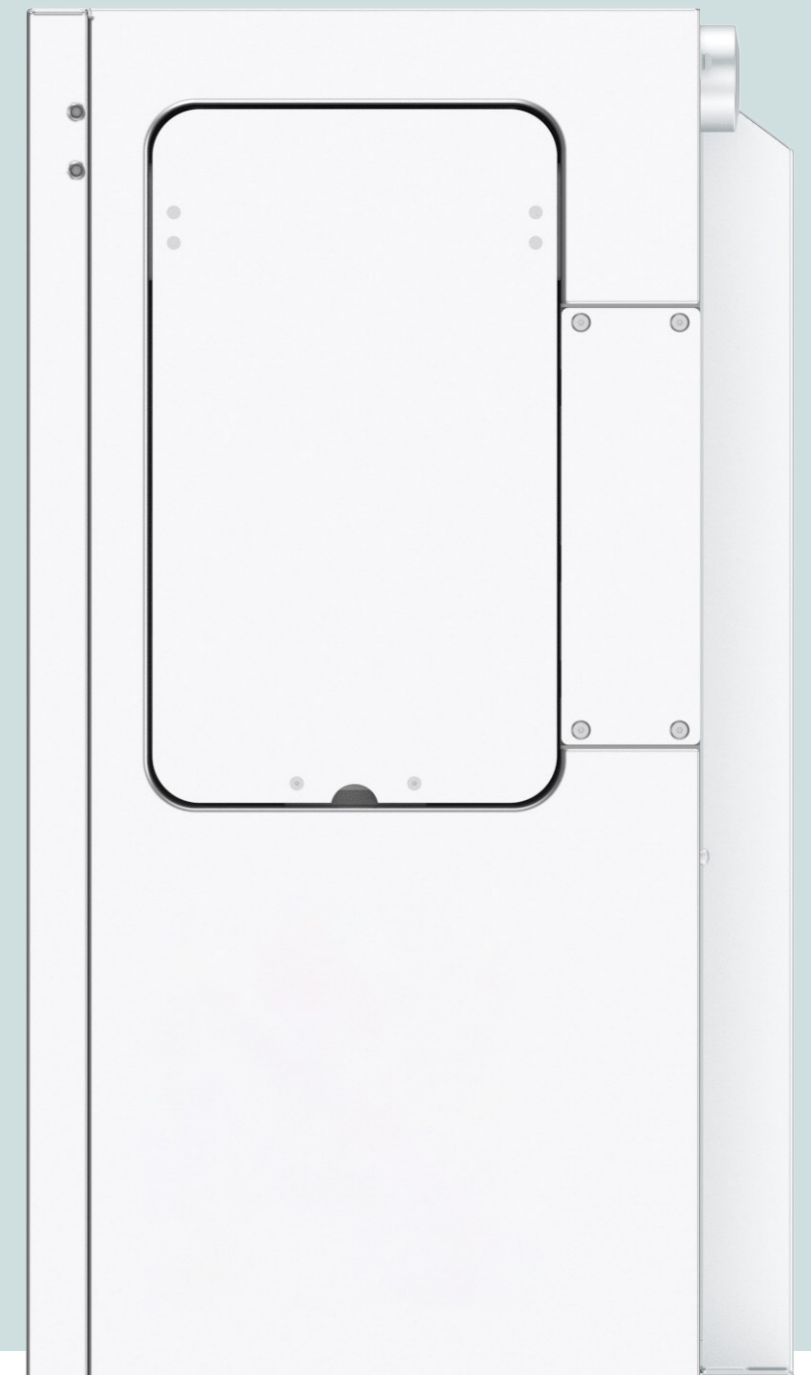


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Emaldo® Power Store

Specifications



emaldo

🇩🇰 Developed in Denmark

The Emaldo® Power Store adds profitable storage of self-produced solar electricity to any solar system, allowing for clean and free energy to be stored until it is actually needed.

Emaldo® Power Store

Specifications

General

Dimensions(W/H/D)	700x1520x328mm
Weight	
Cabinet	62.0 kg
Inverter	47.0 kg
Battery	50.50 kg
Battery slots	3
Topology	Transformerless
Cooling	Forced air
Noise	< 50dB
Self-consumption	< 150W
Altitude	2000m
Relative humidity	10~85%
Inverter operation temperature	-20°C~60°C
Charging operation temperature	-20°C~55°C
Discharging operation temperature	-20°C~60°C
Storage temperature	-20°C~55°C
Display	APP
Communication	RS485 (Smart Meter)
4G/WiFi/Bluetooth/LoRa	Yes / Yes / Yes / Yes
IP rating	IP54
SKU	
Inverter	EM-INV-03 / EM-INV-03-xx
Cabinet	EM-CAB-WH-EMP-03
Battery	EM-BAT-02 / EM-BAT-02-xx
Complete system	EM-SYS-PS-WH-02

AC output (off-grid)

Rated power	10800VA (PF=1)
Rated output voltage	400Vac (3W+N+PE)
Rated output frequency	50/60Hz ±0.5
Rated current	15.7A*3
Max output current	15.8A*3
Max power output (startup)	21600VA
Switch time	10ms
Wave form	Pure sine wave

AC output (on-grid)

Rated power	10800VA
Rated voltage	400Vac (3W+N+PE)
Rated current	15.6A*3
Max output current	15.8A*3
Max power factor	>0.99
Frequency range	50/60Hz
Max efficiency	97%
Europe efficiency	96%

Battery

Battery type	LFP (LiFePO4)
Battery capacity	5120~15360Wh (1~3 batteries)
Battery capacity expansion	YES (up to 133kWh)
Rated battery voltage	51.2V
Working voltage range	43.2V~57.6V
Max charging current	100~200A (1~3 batteries)
Max discharging current	100~200A (1~3 batteries)
Charging temperature	-20~55°C
Discharging temperature	-20~60°C
Heat film	200-400W

Efficiency

Max efficiency	97%
European efficiency	96%

Energy storage. Enabling the capability of storing self-produced solar electricity for when you actually need it. Works with all inverters. Can be installed on a property even if this has a solar system installed already. Option to add power backup. Add power backup of the things that matters the most. Sold separately. 4G Connectivity. Wirelessly connects to the internet through 4G.

Protection

Battery under-voltage protection (settable)	Yes
Battery over-voltage protection (settable)	Yes
AC output under-voltage protection (184Vac)	Yes
AC output over-voltage protection (282Vac)	Yes
AC output over-temperature protection	Yes
AC output overload protection	Yes
Insulation impedance detection	Yes
Residual current detection	Yes
AC surge protection (three grade)	Yes

Standard

Safety	IEC62109-1:2010, IEC62109-2:2011
EMC	IEC61851-21-2:20218, IEC61000-6-1, IEC61000-6-3
Battery	IEC62619:2022, UN38.3, MSDS
Grid	TRLV/G98:2022/VDE 4105:2018/EIFS:2018/EN50549.....
System	IEC61851-1:2017, IEC62955, IEC60529:2013, EN61984
Emissions	RED 2014/53/EU

Warranty

Battery	
Operation of the product	Charging temperature -20°C ~ 50°C. Discharge temperature -20°C ~ 60°C.
Storage	Storage temperature: -10°C ~ 40°C (within one month) or 0°C ~ 35°C (within one year). Recommended storage humidity: 0%~95%RH (non-condensing).
Product Warranty	Emaldo® guarantees that the battery system will retain 70% of the usable energy for 10 years or 6000 cycles if installed and handled correctly as described in the user manual.
Inverter	
Operation of the product	Operation of the product -20°C ~ 60°C
Storage	Storage temperature: -10°C ~ 40°C (within one month) or 0°C ~ 35°C (within one year). Recommended storage humidity: 0%~95%RH (non-condensing).
Product Warranty	10-year Inverter Performance Guarantee: Emaldo® guarantees that the inverter will work according to specification if handled according to user guidelines and standards.
Cabinet	
Operation of the product	Operation of the product -20°C ~ 60°C
Storage	Storage temperature: -10°C ~ 40°C (within one month) or 0°C ~ 35°C (within one year). Recommended storage humidity: 0%~95%RH (non-condensing).
Product Warranty	10-year Hardware Guarantee: Emaldo® guarantees that the hardware will work according to specification if handled according to user guidelines and standards.

Terms

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® 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.