

DATA SHEET

Emaldo® Power Store



PRODUCT TYPE
Complete system

PRODUCT LINE
Store

PRODUCT NAME
Emaldo® Power Store

SKU
EM-SYS-PS-WH-01

EAN
5711826606035



Energy storage

Enabling the capability of storing self-produced solar electricity for when you actually need it.



Option to add power backup

Add power backup of the things that matters the most. Sold separately.



Works with all inverters

Can be installed on a property even if this has a solar system installed already.



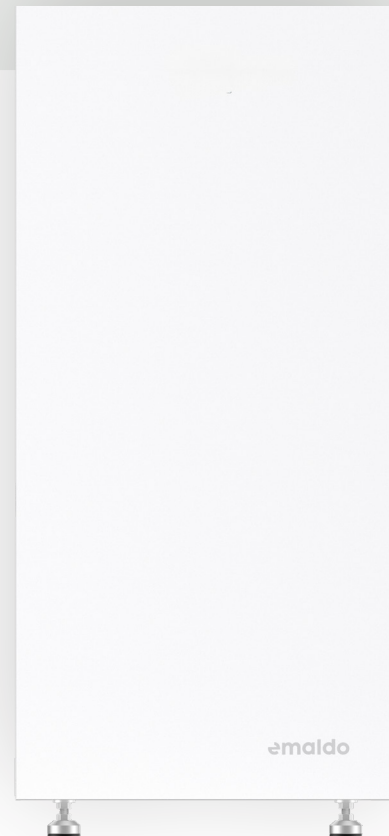
4G Connectivity

Wirelessly connects to the internet through 4G cellular.

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

General

Dimensions(W/H/D)	700x1520x328mm
Weight	Cabinet: 71,0 kg Inverter: 52,5 kg Battery: 58,5 kg
Battery slots	3
Topology	Transformerless
Cooling	Forced air
Noise	<50dB
Self-consumption	<150W
Heating film energy consumption	200W (Single Battery)
Altitude	2000m (degraded 1% per 100m above 2000m)
Relative humidity	0-95%
Inverter operation temperature	-20°C-60°C
Charging operation temperature	-20-55°C
Discharging operation temperature	-20-60°C
Storage temperature	0-35°C
Display	LED+APP
Communication	RS485 (Electrical Meter)
4G/WiFi/Bluetooth/LoRa	Yes / Yes / Yes / Yes
AI optimized	No



Included

- 1 x Emaldo® Store Cabinet with slideON™ connectors and built-in cable management
- 1 x Emaldo® 10.8 kWh Hybrid Inverter
- 1 x Emaldo® 5.12 kWh Power Boxes
- 1 x Starter Kit (Installation)

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

Efficiency

Max efficiency	97.00%
European efficiency	96.00%
MPPT efficiency	99.90%

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 -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

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

Cabinet

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 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.