emaldo

DATA SHEET

Emaldo[®] **Power Store Al**

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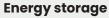
PRODUCT TYPE Complete system

PRODUCT LINE Store

PRODUCT NAME Emaldo[®] Power Store AI

SKU EM-SYS-PS-WH-02

EAN 5711826605557



installed already.

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

Option to add power backup

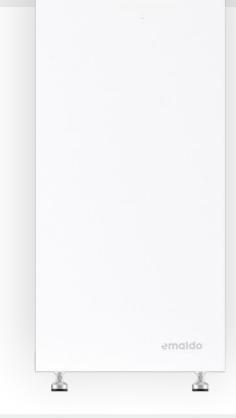
Add power backup of the things that matters the most. Sold separately.

4G Connectivity

Wirelessly connects to the internet through 4G cellular.

The Emaldo® Power Store adds profitable storage of self-produced solar electricity to any solar system, allowing for the clean an 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 |
| Тороlоду | 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 |
| Al optimized | Yes, Energenie® Al inside |



Included

l 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% |

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 -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 Warrantv

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 -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.