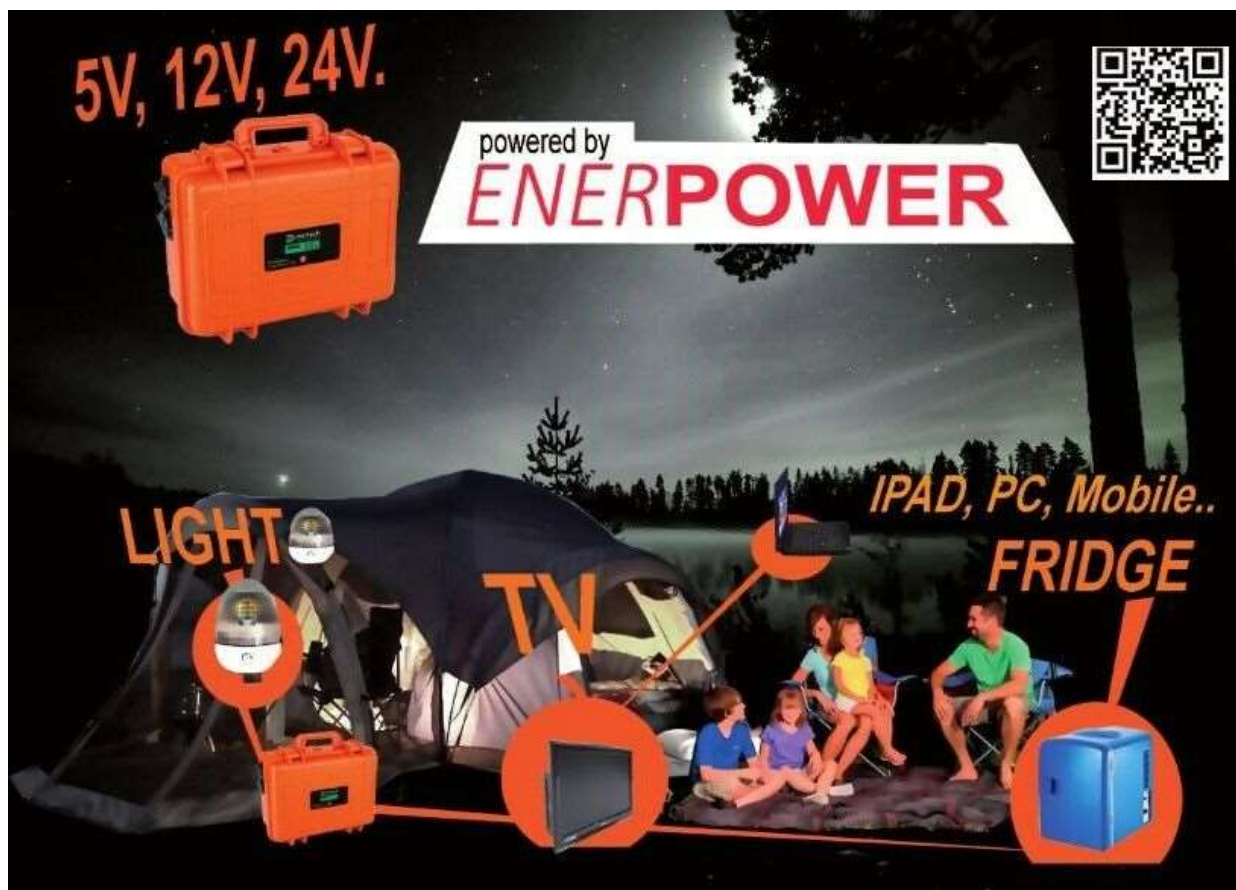


ENERPOWER

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PRODUCT SPECIFICATIONS

Product	ENERpower Energy Case
Type	ECD-500 / ECD-1000 / ECD 1500 / ECD-2000



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Applications & Uses



This energy storage unit, AKA Energy Case, has a variety of conceivable uses. Either in your free time, at the campsite and on vacation, or even at work. In principle, it can replace a conventional power generator, and provide constant current to different devices, such as lighting systems, coolers, 12V TV sets, laptops, mobile phones, GPS, hot plates, power tools, etc.

This Energy Case, we manufacture in Berlin in several versions and in two colors (orange and black). The models variate according to operation power: 500Wh / 1000Wh / 1500Wh / 2000 Wh.

OEM – Original Equipment Manufacturer

This energy storage unit can be modified and can be manufactured with different outputs. Depending on customer requirements, we are able to make this energy case to correspond to the wishes and requirements of the customer.

We can also integrate a DC-DC converter of Meanwell (24V DC 300 watts) to maintain a constant voltage output of 24V (for medical devices, measuring devices, etc.).



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LCD Display



The backlit LCD display on the front side of the energy case displays the remaining capacity of the battery as a percentage (0% - 100%). When you turn on the energy case, the display lights for 15 seconds.

While the energy case is on, you can turn on the display with the button below. The display will then switch off automatically after 15 seconds.

Charging the Energy Case

Charging is done via a connection of 24V DC, which is located on the side of the device. Charging is done using a charger of 29.4V with a Weipu-SY13 (3 poles) plug (see image on the right).

We can offer several types of chargers with following currents: 2A (60W), 3A (90W), 4A (120W) and 6A (180W).



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Ports & Connections

Port 1: SY13 (3 poles) 24V (25.2V DC / 15A)



The above 24V connector should also be used both for charging as for discharging. Various 24V (20V - 29V) devices can be operated, such as hot plates, kettle, light fixtures.

We can keep this output stable using a Meanwell DC-DC converter to 24V. The output power is then 300W. This configuration is not included.

Ports 2,3 and 4

We can use our energy case with one or two 12V CLA (Cigarette Lighter Adapter), making it possible to supply various 12V devices with power, such as coolers, hot plates, 12V televisions, tools, etc. that have a CLA plug.

Moreover, we can also equip the energy case with conventional 5V USB ports (1A & 2.1A), with which many 5V devices, such as smartphones, tablets, etc. can be powered or charged. We can also implement faster 5V USB QC3.0 and USB-C / PD outputs.



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Technical Specifications

Model Name(s)	ECD-500 / EC-1000 / ECD 1500 / ECD-2000
Battery Cell	Samsung SDI INR18650-35E Li-Ion
Operating Voltage	21V – 29.4V
Battery Capacity	20.1Ah (506Wh) / 40.2Ah (1012Wh) / 60.3Ah (1518Wh) / 80.4Ah (2024Wh)
Charging Voltage	29.4V
Charging Current	<7A
Connection 1 - output voltage / current	25.2V DC (21 - 29,4V DC) / 15A constant current (350 watts)
CLA Port Output voltage / current	12V DC (11.8 to 13.5 VDC) / 10A 120W (total power)
USB ports	5.2V DC / 2.1A 1A USB QC3.0 USB-C / PD
operating temperatures	-20 ° C ~ 50 ° C
Self-discharge rate per month (OFF mode)	<3%
Operating mode Self Consumption (ON mode)	3.5W



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safety instructions

- NEVER charge the battery above the charge voltage mentioned in the product specifications.
- NEVER reverse charge the battery.
- NEVER heat or incinerate the battery.
- NEVER pierce, crush or cause any mechanical damage to the battery.
- NEVER charge a battery at high temperature condition, such as at or near a fire.
- NEVER short circuit the battery.
- NEVER discharge a battery to below the voltage mentioned in its specifications.
- NEVER allow the battery to get wet or be immersed in water.
- For long period of storage, temperature should be below 35°C.
- After long period of storage, the battery may require some cycling to recover capacity.
- Keep the battery away from the reach of little children.
- Failing to follow these instructions could lead to severe damages and injuries.

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