GUIDE · IN ENGLISH

Battery EASUN POWER 12.8 V 100 Ah 1.28 kWh

Model IBattery-EA-12100AH: specifications, connection to the inverter, several batteries, storage



Battery EASUN POWER 12.8 V 100 Ah

Data from the label on the case	
Model	**IBattery-EA-12100AH**
Type	**LiFePO4** (lithium iron phosphate), deep cycle
Rated voltage / capacity	**12.8 V / 100 Ah**
Energy	**1280 Wh**
Charge voltage	**14.4 V** (maximum 14.6 V)
Charging current	**70 A** maximum
Standard / maximum charge	**20 A / 70 A**
Continuous / peak discharge	**100 A / 200 A** (3 s)
Charge temperature	**0…+45 °C**
Discharge temperature	**−20…+60 °C**

Additional (not on the label)	
Cells	**LiFePO4,** prismatic, 4S (4 × 3.2 V)
Protection	built-in **BMS;** enclosure **IP65**
Weight	**≈ 10 kg**
Life	over **4000 cycles** (manufacturer's data)
Connection	up to **4 in parallel** and up to **4 in series** (4P4S)

What to do to work with an inverter

1. Switch off the inverter and DC breaker. Power cable **25 mm²** with ring lugs: red from battery "+" to inverter "+ BAT", black from "−" to "− BAT".
2. In the positive wire: DC breaker or fuse **125–150 A** (per the inverter). Check polarity with a multimeter before switching on.
3. In the inverter choose battery type USE (user): charge 14.2 V, float 13.6 V, cut-off 12.0 V, charge current up to 50 A.
4. Menu item numbers for our inverters are in the PDF "Connection - Battery EASUN POWER 12.8V 100Ah".

This battery has no comms port to the inverter (RS485/CAN). Continuous BMS current 100 A is ≈ 1.2 kW of load from one battery.

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+38 093 293 93 93 · +38 099 054 40 38 · Specialist Pavlo Leonidovych · strooks@gmail.com

SEVERAL BATTERIES AND CARE

Connection, storage, safety

The real battery label with specifications



Real photo of the battery EASUN POWER 12.8 V 100 Ah

Several batteries

- **In parallel, up to 4 pcs:** 12.8 V, 200–400 Ah. “+” to “+”, “−” to “−”; to the inverter from “+” of the first and “−” of the last, cables of equal length.
- **In series, up to 4 pcs:** 25.6 V (2 pcs) or 51.2 V (4 pcs), only for an inverter of the same voltage.
- Connect only identical batteries (model, capacity, age), each fully charged separately first.

Storage and care

- For storage: charge ≈ 50 %, disconnect from the inverter; top up every 3 months.
- Below 0 °C the BMS blocks charging: this is normal.
- Check terminal tightness every 3 months.
- Charge only in LiFePO4 mode; AGM / FLD modes are not suitable.

Safety. Do not short the terminals: short-circuit current is very high. Do not disassemble, crush, heat, burn or immerse in water. At end of life, recycle; do not dispose of with household waste.

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+38 093 293 93 93 · +38 099 054 40 38 · Specialist Pavlo Leonidovych · strooks@gmail.com