

ES-2002 ENERGY SYSTEM

- > **DGUV COMPLIANT**
- > **HIGH CAPACITY**
- > **EFFICIENT CHARGING**

PROFESSIONAL ALL-IN-ONE ENERGY SYSTEM FOR INSTALLATION IN COMMERCIAL VEHICLES – COMPLIANT WITH DGUV 203-032



ES-2002 offers the highest level of user protection with a built-in IMD monitoring relay completely cutting off output in case of a failure.

Bring your most powerful power tool to work: With the ES-2002, your everyday life will be easier and you will save time as you do not have to look for sockets.

The ES-2002 is targeted at markets where compliance with the German standard DGUV 203-032 is required. The energy system is a further development of our well-known and solid ES-2000, but now with an integrated DC/DC charger, IMD relay and IP54 on the relays.

The 2000W 230V pure sine wave inverter delivers power like from the socket and supplies all your AC devices from the built-in LiFePO4 battery.

The intelligent battery monitor BMS protects the batteries from overload and 100 percent discharge and ensures the longest possible service life of the entire system. To maximize operating time, it ensures fast and efficient charging of the battery using all available energy from the vehicle's generator or from an external power outlet.

> FEATURES

- 2000W, 230V AC pure sine inverter
- 1280Wh LiFePO4 battery
- Complies with DGUV 203-032
- Robust steel cabinet for installation
- Flexible positioning of the display
- On/off function with ignition key
- Built-in solar charge controller
- Built-in booster for generator power
- Has the following approvals:
 - IEC 62619: 2017
 - e-Mark
 - UN38.3
 - CE EMC
 - UKCA.



Our free AWILCO app provides detailed information about the status of the battery.

ES-2002

ENERGY SYSTEM

> SPECIFICATIONS

MODEL	ES-2002
AC OUTPUT FROM INVERTER	Voltage: 230V \pm 10% Current: Max 16 A Waveform: Pure sinus Frequency: 50 Hz Power: Max. 40000 W
DC CHARGING / DC CHARGING FROM INVERTER (CONNECTED TO GRID)	10,5-15,5 V DC Max. 100A
DC OUTPUT VOLTAGE	13,2 V nominal voltage (9,5-13,9 V DC) Max. current strength: 200 A Max 500 A (2 s)
OUTPUT VOLTAGE	230V AC
OUTPUT POWER PEAK	4000W
BATTERY CAPACITY AND TYPE	1280Wh LiFePo4
PLUGS	1 Schuko 1 Wieland 3-pole 1 Wieland out 3 Anderson 1 USB-A 1 IGN +
OPERATING TEMPERATURE	-20°C to +50°C
STORAGE TEMPERATURE	-20°C to +50°C
BUILT-IN SOLAR REGULATOR	Yes
BLUETOOTH	Yes
WEIGHT	31.8 kg
DIMENSIONS	320x340x395 mm (HxLxW)
DANGEROUS GOODS	Yes
CERTIFICATIONS	CE - EMC UN 38.3 E-mark UKCA IEC62619: 2017

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The ES-2002 energy system has a wide range of connectivity options