

DATASHEET - TECHNICAL SPECIFICATIONS

<https://www.kon-tec.eu/>

LOW VOLTAGE ENERGY STORAGE KON-TEC LITHIUM IRON PHOSPHATE LiFePO₄

51,2V 100Ah

KT-LFPES512100



FEATURES

The ESS rack is a scalable solution designed for indoor ESS applications. The technology allows it to be easily combined with the main inverter in a variety of scenarios. Including power backup in the absence of grid power or as part of an off-grid or hybrid installation.

SAFETY Low voltage battery, cobalt free cells with safe LiFePO₄ chemistry. Conform to ul1973, iec62619, ce, un38.3, etc.

MODULARITY support up to 32 units connected in parallel, scalability in the range of 5kWh to 160kWh without external controller.

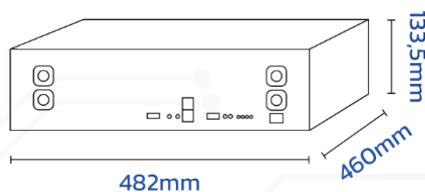
LIFETIME 6,000 cycles and more

COMPACT AND FLEXIBLE 3U (133mm) height standard construction. Additional brackets sets for various installation options.

COMPATIBILITY compatible with almost all hybrid and off-grid inverters.

COST AND PERFORMANCE lower cost per cycle, easy installation

DIMENSIONS



INSTALLATION



Mounting on the wall



Floor installation



Stacked / rack mounting

VOLTAGE AND CAPACITY

Rated voltage	51.2V
Max. voltage range	44.8-57.6V
Nominal capacity	100Ah
Nominal energy	5120Wh
Usable energy	4920Wh

CHARGING AND DISCHARGING

Charge voltage	56V
Standard charge current	≤50A
Max. charge current	70A
Standard discharge current	≤50A
Max. discharge current	90A

WORKING CONDITIONS

Operation temperature - charge	0°C-50°C
Operation temperature - discharge	0°C-50°C
Storage temperature (<3 months)	-10°C-45°C
Storage temperature (<6 months)	0°C-30°C
Relative humidity	5-75% without condensation
Installation location	Indoor
Installation	Stack Wall Floor

OTHER

Lifetime at recommended load current	96% DoD - ≥6000
Efficiency η	96%
Communication	RS485 /CAN
Weight	~46kg (101lb)
Dimension (length x height x depth)	482x133.5x460mm

COMPLIANCE

Certificate	CE
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PROTECTION TYPE

- Overcharge,
- Over-discharge,
- Too high or too low a charging current,
- Short circuit / reverse polarity,
- Overheating (high temperature),
- Charging at low temperatures,
- Sleep mode after charging