

# DATASHEET - TECHNICAL SPECIFICATIONS

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

## LOW VOLTAGE ENERGY STORAGE KON-TEC LITHIUM IRON PHOSPHATE LiFePO<sub>4</sub>

51,2V 100Ah

KT-LFPE512100



### 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 LiFePO<sub>4</sub> 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.

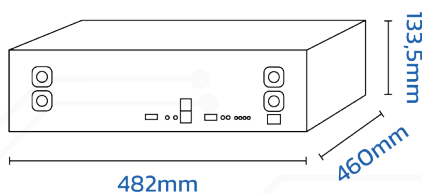
**LIFETIME** 6,000 cycles and more

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

**COMPATIBILITY** Deye 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	5°C-50°C
Operation temperature - discharge	5°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