

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.

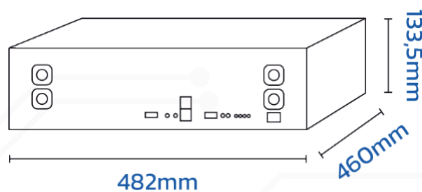
LIFETIME 6,000 cycles and more

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

COMPATIBILITY 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 | 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 |
|-------------|----|

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