

# S<sup>3</sup>-EStore C&I Energy Storage System

## ESI241-100K-M



### Safe

- Cell status fully monitoring & multi-level fire protection
- PCS and battery IP6X protection
- Online insulation detection & Accurate positioning protection



### Smart

- Multi-mode operation & health status detection
- Refined thermal management, temperature difference within system  $\leq 3^{\circ}$
- Health status recognition, Improve O&M efficiency
- Intelligent local power controlling algorithm, making full use of system energy



### Simple

- High power density, only take up 1.3m<sup>2</sup>
- Flexible transportation & fast installation
- Free combination & flexible expansion



# Technical Specification

| Items                        | ESI241-100K-M                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DC parameter</b>          |                                                                                                                                                              |
| Cell type/capacity           | LiFePO4 3.2V/314Ah                                                                                                                                           |
| System battery configuration | 1P240S                                                                                                                                                       |
| DC protection                | FUSE                                                                                                                                                         |
| System energy capacity       | 241kWh                                                                                                                                                       |
| System battery voltage range | 600-876Vdc                                                                                                                                                   |
| P rate                       | ≤0.5P                                                                                                                                                        |
| Depth of discharge           | 0-95%                                                                                                                                                        |
| Battery pack IP rating       | IP67                                                                                                                                                         |
| Cooling type                 | Liquid cooling                                                                                                                                               |
| <b>AC parameter</b>          |                                                                                                                                                              |
| Rated AC power               | 100kW                                                                                                                                                        |
| Rated AC voltage             | 400Vac 3P3W+PE                                                                                                                                               |
| AC voltage range             | -15%-10%(settable)                                                                                                                                           |
| Nominal grid frequency       | 50/60Hz                                                                                                                                                      |
| Nominal grid frequency range | 45-55Hz/55-65Hz                                                                                                                                              |
| THDi (on-grid)               | <3% (at rated power)                                                                                                                                         |
| THDu (off-grid)              | <3% (linear load)                                                                                                                                            |
| DC component                 | <0.5%                                                                                                                                                        |
| IP rating                    | IP66 (Modular PCS)                                                                                                                                           |
| Cooling type                 | Intelligent air cooling                                                                                                                                      |
| <b>General data</b>          |                                                                                                                                                              |
| Max. efficiency              | 90.2%                                                                                                                                                        |
| Dimension (W*H*D)            | 1000×2340×1300mm                                                                                                                                             |
| Weight                       | 2300kg                                                                                                                                                       |
| IP rating                    | IP54                                                                                                                                                         |
| Anti-corrosion grade         | C3 (C5 optional)                                                                                                                                             |
| Relative humidity            | 0~100% (no-condensing)                                                                                                                                       |
| Operating temperature range  | -35°C~55°C                                                                                                                                                   |
| Altitude                     | 3000m (>2000m derating)                                                                                                                                      |
| Anti-explosion type          | Anti-explosion valve                                                                                                                                         |
| Fire distinguish equipment   | Gas aerosol                                                                                                                                                  |
| Communication interface      | Ethernet/CAN/RS485                                                                                                                                           |
| Communication protocol       | Modbus TCP                                                                                                                                                   |
| Compliance                   | IEC/EN 62477-1, EN IEC 61000-6-2/4, IEC 62619, EN 61000-3-12, EN IEC 61000-3-11, VDE-AR-N 4105, EN 50549-1, NC RFG, CEI:0-21, CEI:0-16, TOR Erzeuger Typ A/B |

- Due to the multi-supplier for some key components, the actual weight may have a +5% deviation, please refer to the actually delivered product.
- Specification indexes may be subject to changes without further notice.

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