

High-voltage Battery System



T-BAT-SYS-HV-R3.6

7.3kWh ~ 47.8kWh



High Performance

- Max. 50A charging / discharging current
- Cycle life > 6000 times



Assured Reliability

- LiFePO4 battery cell (72Ah)
- No toxic heavy metals or caustic materials



Smart Management

- Remote fault diagnosis, upgrade and maintenance



Flexible Adaptability

- Space-efficient design enables straightforward installation in tight areas
- Extendable from 7.3kWh to 47.8kWh per string

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| SYSTEM PARAMETERS | |
|--|---|
| Voltage range | 89.6 ~ 759.2 V |
| Recommend charge / discharge current | 35 A |
| Max charge / discharge current | 50 A |
| Available charge / discharge temperature range | Charge: 0 ~ 50°C Discharge: -20 ~ 50°C |
| Warranty | 10 years |
| Cycle life | > 6000 Cycles |
| System capacity | 2 ~ 13 Batteries |
| Communication interface | RS485, CAN |
| Protection class | IP20 |
| Cabinet size (L x W x H) (L-rail is required) | 600 x 600 x 1166 mm (22U) 1BMS + 6 Battery Modules 600 x 600 x 2055 mm (42U) 1BMS + 13 Battery Modules |

| BATTERY MODULE | |
|------------------------------|--------------------|
| Model | TP-HR36 |
| Specification | 72 Ah |
| Nominal voltage | 51.2 V |
| Operating voltage | 44.8 ~ 58.4 V |
| Battery type | Li-ion (LFP) |
| Total energy | 3.68 kWh |
| Usable energy ^① | 3.31 kWh |
| Battery roundtrip efficiency | 95% |
| Nominal power | 1.7 kW |
| Dimensions (L x W x H) | 442 x 391 x 130 mm |
| Weight | 31 kg |

| BMS | |
|------------------------|--------------------|
| Model | TBMS-MCR0800 |
| Dimensions (L x W x H) | 442 x 391 x 130 mm |
| Weight | 8 kg |

① Test conditions: 90% DOD, 0.2C charger & discharger @+25°C

* The number of batteries that can be connected in series in a single string depends on the battery side voltage of the inverter, and the battery voltage needs to be calculated according to the maximum voltage of a single battery.