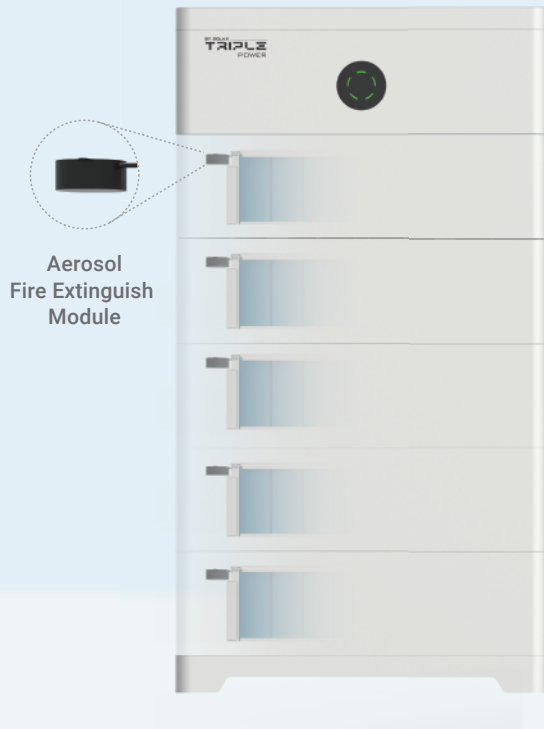


High-voltage Battery System



T-BAT-SYS-HV-S3.6

7.37 kWh ~ 47.92 kWh



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech for low-temperature operation



Assured Reliability

- LFP battery cell & high-performance processors
- IP65 Ingress protection
- Soft start to protect from a sudden surge
- Aerosol fire suppression for precise protection



High Performance







- 7.3 - 47.9 kWh wide capacity range
- Max. 50A charging / discharging current
- Cycle life > 6000 cycles









Flexible Adaptability

- Supports battery expansion
- Stackable modules, plug and play design
- With TCBox-70, supports up to three battery towers; with battery expansion cables, supports up to two battery towers^①

^① Selection should be based on the inverter's actual compatibility

| | T-BAT HS7.2 | T-BAT HS10.8 | T-BAT HS14.4 | T-BAT HS18.0 | T-BAT HS21.6 | T-BAT HS25.2 |
|--------------------------------------|--|--|--|--|--|--|
| Number of modules |  2 |  3 |  4 |  5 |  6 |  7 |
| GENERAL INFORMATION | | | | | | |
| Nominal voltage | 102.4 d.c. V | 153.6 d.c. V | 204.8 d.c. V | 256.0 d.c. V | 307.2 d.c. V | 358.4 d.c. V |
| Operating voltage range | 90 - 116 d.c. V | 135 - 174 d.c. V | 180 - 232 d.c. V | 225 - 290 d.c. V | 270 - 349 d.c. V | 315 - 406 d.c. V |
| Nominal energy | 7.3 kWh | 11.0 kWh | 14.7 kWh | 18.4 kWh | 22.1 kWh | 25.8 kWh |
| Usable energy (90% DOD) ^① | 6.6 kWh | 10.0 kWh | 13.3 kWh | 16.6 kWh | 19.9 kWh | 23.2 kWh |
| Rated charge / discharge power | 3.5 kW | 5.3 kW | 7.1 kW | 8.9 kW | 10.7 kW | 12.5 kW |
| Max. charge / discharge power | 5.1 kW | 7.6 kW | 10.2 kW | 12.8 kW | 15.3 kW | 17.9 kW |
| Dimensions (W x H x D) | 510 x 522 x 365 mm | 510 x 659.5 x 365 mm | 510 x 797 x 365 mm | 510 x 934.5 x 365 mm | 510 x 1072 x 365 mm | 510 x 1209.5 x 365 mm |

| | T-BAT HS20.0 | T-BAT HS22.5 | T-BAT HS25.0 | T-BAT HS27.5 | T-BAT HS30.0 | T-BAT HS32.5 |
|--------------------------------------|--|--|---|---|---|---|
| Number of modules |  8 |  9 |  10 |  11 |  12 |  13 |
| GENERAL INFORMATION | | | | | | |
| Nominal voltage | 409.6 d.c. V | 460.8 d.c. V | 512.0 d.c. V | 563.2 d.c. V | 614.4 d.c. V | 665.6 d.c. V |
| Operating voltage range | 360 - 465 d.c. V | 405 - 522 d.c. V | 450 - 580 d.c. V | 495 - 636 d.c. V | 540 - 695 d.c. V | 585 - 750 d.c. V |
| Nominal energy | 29.4 kWh | 33.1 kWh | 36.8 kWh | 40.5 kWh | 44.2 kWh | 47.9 kWh |
| Usable energy (90% DOD) ^① | 26.5 kWh | 29.9 kWh | 33.2 kWh | 36.5 kWh | 39.8 kWh | 43.1 kWh |
| Rated charge / discharge power | 14.3 kW | 16.1 kW | 17.9 kW | 19.7 kW | 21.5 kW | 23.3 kW |
| Max. charge / discharge power | 20.4 kW | 23.0 kW | 25.6 kW | 28.1 kW | 30.7 kW | 33.2 kW |
| Dimensions (W x H x D) | 510 x 1347 x 365 mm | 510 x 1484.5 x 365 mm | 510 x 1622 x 365 mm | 510 x 1072 x 365 mm + 510 x 934.5 x 365 mm | 510 x 1072 x 365 mm + 510 x 1072 x 365 mm | 510 x 1209.5 x 365 mm + 510 x 1072 x 365 mm |

| GENERAL INFORMATION | |
|--|---|
| Depth of discharge(DOD) | 90% |
| Recommend charge / discharge current | 35 A |
| Max. charge / discharge current ^② | 50 A |
| Cycle life (90% DOD) ^③ | > 6000 Cycles |
| ENVLONMENTAL REQUREMENTS | |
| Charge temperature | -30 - +53°C (with heating function) 0 - +53°C (without heating function) |
| Discharge temperature | -30 - +53°C (with heating function) -20 - +53°C (without heating function) |
| Storage temperature | -20 - +30°C (12 months) +30 - +50°C (6 months) |
| Relative humidity | 4 - 100% RH (condensing) |
| Max. operating altitude | 3000 m |
| Ingress protection | IP65 |
| BMS | |
| Model | TBMS - MCS0800 |
| Dimensions (W x H x D) | 510 x 157 x 365 mm |
| Net weight | 13 (±0.5) kg |
| BATTERY MODEL | |
| Battery model | TP-HS36 |
| Battery type | LFP |
| Module capacity | 3.6 kWh |
| Dimensions (W x H x D) | 510 x 152 x 365 mm |
| Net weight | 34 (±1) kg |
| SERIES BOX | |
| Dimensions (W x H x D) | 510 x 157 x 365 mm |
| Net weight | 10 (±0.5) kg |
| COMMUNICATION | |
| Communication interfaces | CAN2.0 / RS485 |
| STANDARD | |
| Certifications | IEC62619, IEC60730, IEC62040, CE, UN38.3, UL9540A ^④ |

① Test conditions: 90% DOD, 0.2C charge & discharge @+25°C

② Current is affected by the number of batteries connected in parallel as well as temperature and SOC

③ Test conditions: 25±2°C, 0.5C charge & discharge, 70% EOL

④ UL9540A certification coming soon