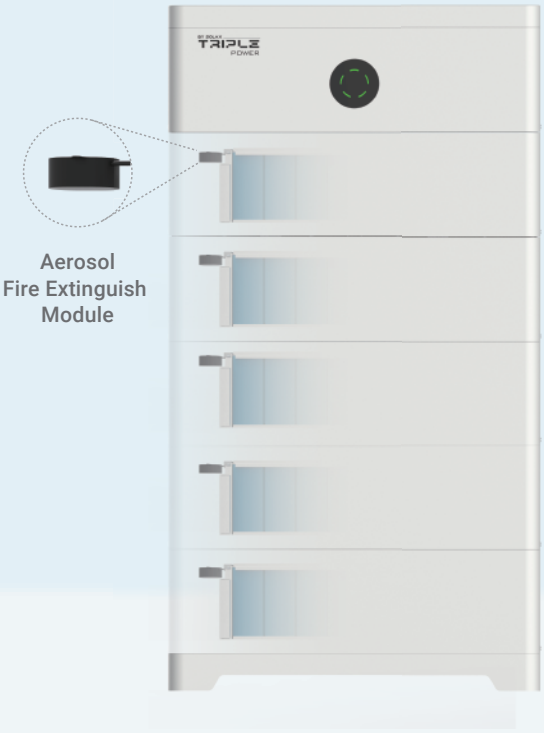
# High-voltage Battery System




# T-BAT-SYS-HV-S2.5

**5.12 kWh ~ 33.28 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

- 5.1-33.2 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 towers①

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

solaxpower www.solaxpower.com info@solaxpower.com +86 571-56260008

*V1.9. Information may be subject to modify without notice. 650.00031.00*

| | T-BAT HS5.0 | T-BAT HS7.5 | T-BAT HS10.0 | T-BAT HS12.5 | T-BAT HS15.0 | T-BAT HS17.5 |
|---|---|---|---|---|---|---|
| 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 | 5.1 kWh | 7.6 kWh | 10.2 kWh | 12.8 kWh | 15.3 kWh | 17.9 kWh |
| Usable energy (90% DOD)① | 4.6 kWh | 6.9 kWh | 9.2 kWh | 11.5 kWh | 13.8 kWh | 16.1 kWh |
| Rated charge / discharge power | 3.1 kW | 4.6 kW | 6.1 kW | 7.7 kW | 9.2 kW | 10.8 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 × H × D) | 510 × 522 × 365 mm | 510 × 659.5 ×365 mm | 510 × 797 × 365 mm | 510 × 934.5 × 365 mm | 510 × 1072 × 365 mm | 510 × 1209.5 × 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 | 20.4 kWh | 23.0 kWh | 25.6 kWh | 28.1 kWh | 30.7 kWh | 33.2 kWh |
| Usable energy (90% DOD)① | 18.4 kWh | 20.7 kWh | 23.0 kWh | 25.3 kWh | 27.6 kWh | 30.0 kWh |
| Rated charge / discharge power | 12.3 kW | 13.8 kW | 15.4 kW | 16.9 kW | 18.4 kW | 20.0 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 × H × D) | 510 × 1347 × 365 mm | 510 × 1484.5 × 365 mm | 510 × 1622 × 365 mm | 510 × 1072 × 365 mm + 510 × 934.5 × 365 mm | 510 × 1072 × 365 mm + 510 × 1072 × 365 mm | 510 × 1209.5 × 365 mm + 510 ×1072 × 365 mm |

| | |
|---|---|
| **GENERAL INFORMATION** | |
| Depth of discharge(DOD) | 90% |
| Recommend charge / discharge current | 30 A |
| Max. charge / discharge current② | 50 A |
| Cycle life (90% DOD)③ | > 6000 Cycles |
| **ENVLRONMENTAL REQULREMENTS** | |
| Charge temperature | -30 - +53°C (with heating function)<br>0 - +53°C (without heating function) |
| Discharge temperature | -30 - +53°C (with heating function)<br>-20 - +53°C (without heating function) |
| Storage temperature | -20 - +30°C (12 months)<br>+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 × H × D) | 510 × 157 × 365 mm |
| Net weight | 13 ( ±0.5 ) kg |
| **BATTERY MODEL** | |
| Battery model | TP-HS25 |
| Battery type | LFP |
| Module capacity | 2.5 kWh |
| Dimensions (W × H × D) | 510 × 152 × 365 mm |
| Net weight | 30 (±1) kg |
| **SERIES BOX** | |
| Dimensions (W × H × D) | 510 × 157 × 365 mm |
| Net weight | 10 ( ±0.5 ) kg |
| **COMMUNICATION** | |
| Communication interfaces | CAN2.0 / RS485 |
| **STANDARD** | |
| Certifications | IEC62619, IEC60730, IEC62040, CE, UN38.3, UL9540A④ |

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

*Manufactured in China