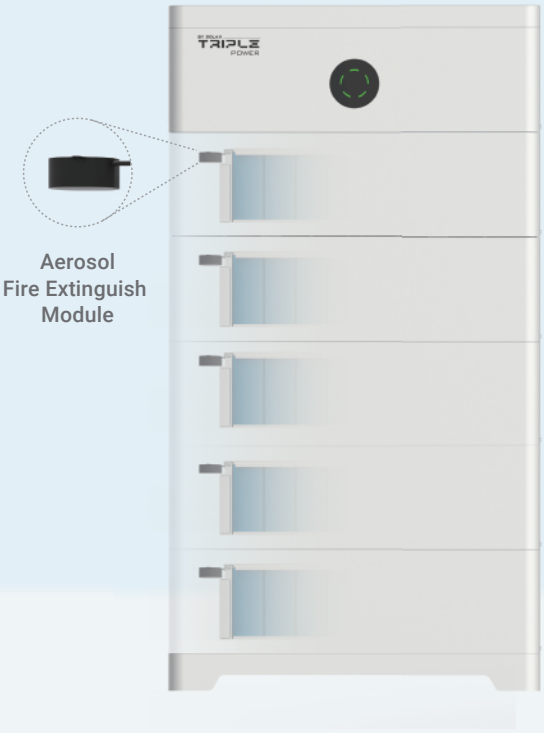
# High-voltage Battery System




# 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*

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*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

BY SOLAX TRIPLE POWER

# NEW FROM SOLAX

# T-BAT-SYS-HV-S3.6





## Features

### HIGH-PERFORMANCE

- Max. 50A continuous charging and discharging current
- Unique battery heating technology, which is capable to work at low temperature

### SAFE AND RELIABLE

- Reliable LFP battery cell
- IP65 for both indoor and outdoor installation
- Soft start protecting batteries and inverters from a sudden surge
- Cycle life > 6000 times

### FLEXIBILITY

- 7.3-47.9kWh Wide capacity range
- Extendable during lifetime

### EASY INSTALLATION

- Stackable modules, Easy and fast for single person installation
- Pre-wired communication cables for plug and play
- Remote diagnosis and update via inverter

## T-BAT-SYS-HV-S3.6

T-BAT HS7.2/T-BAT HS10.8/T-BAT HS14.4
T-BAT HS18.0/T-BAT HS21.6/T-BAT HS25.2
T-BAT HS28.8/T-BAT HS32.4/T-BAT HS36.0
T-BAT HS39.6/T-BAT HS43.2/T-BAT HS46.8


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BY SOLAX TRIPLE POWER

# T-BAT-SYS-HV-S3.6

| Technical Specification | T-BAT HS7.2 | T-BAT HS10.8 | T-BAT HS14.4 | T-BAT HS18.0 | T-BAT HS21.6 | T-BAT HS25.2 |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| | 2 modules | 3 modules | 4 modules | 5 modules | 6 modules | 7 modules |
| Nominal Capacity [kWh] | 7.3 | 11.0 | 14.7 | 18.4 | 22.10 | 25.8 |
| Usable Energy (90% DOD)① [kWh] | 6.5 | 9.9 | 13.2 | 16.5 | 19.8 | 23.2 |
| Nominal voltage [V] | 102.4 | 153.6 | 204.8 | 256 | 307.2 | 358.4 |
| Operating voltage range [V] | 90-116 | 135-174 | 180-232 | 225-290 | 270-349 | 315-406 |
| Recommend Charge / Discharge Current③ [A] | 35 | | | | | |
| Max. Charge / Discharge Current②③ [A] | 50 | | | | | |
| Nominal Power③ [kW] | 3.5 | 5.3 | 7.1 | 8.9 | 10.7 | 12.5 |
| Max. Power③ [kW] | 5.1 | 7.6 | 10.2 | 12.8 | 15.3 | 17.9 |
| Depth of Discharge [%] | 90 | | | | | |
| Communication interface | RS485, CAN | | | | | |
| Dimension (Lx W x H) [mm] | 510 x 365 x 508 | 510 x 365 x 645 | 510 x 365 x 783 | 510 x 365 x 920 | 510 x 365 x 1058 | 510 x 365 x 1195 |
| Weight [kg] | 77 | 110.5 | 144 | 177.5 | 211 | 244.5 |

| Technical Specification | T-BAT HS28.8 | T-BAT HS32.4 | T-BAT HS36.0 | T-BAT HS39.6 | T-BAT HS43.2 | T-BAT HS46.8 |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| | 8 modules | 9 modules | 10 modules | 11 modules | 12 modules | 13 modules |
| Nominal Capacity [kWh] | 29.4 | 33.1 | 36.8 | 40.5 | 44.2 | 47.9 |
| Usable Energy (90% DOD) [kWh] | 26.4 | 29.7 | 33.1 | 36.4 | 39.7 | 43.1 |
| Nominal voltage [V] | 409.6 | 460.8 | 512 | 563.2 | 614.4 | 665.6 |
| Operating voltage range [V] | 360-465 | 405-522 | 450-580 | 495-636 | 540-695 | 585-750 |
| Recommend Charge / Discharge Current [A] | 35 | | | | | |
| Max. Charge / Discharge Current [A] | 50 | | | | | |
| Nominal Power [kW] | 14.3 | 16.1 | 17.9 | 19.7 | 21.5 | 23.2 |
| Max. Power [kW] | 20.4 | 23.0 | 25.6 | 28.1 | 30.7 | 33.2 |
| Depth of Discharge [%] | 90 | | | | | |
| Communication interface | RS485, CAN | | | | | |
| Dimension (Lx W x H) [mm] | 510 x 365 x 1333 | 510 x 365 x 1470 | 510 x 365 x 920 + 510 x 365 x 920 | 510 x 365 x 1058 + 510 x 365 x 920 | 510 x 365 x 1058 + 510 x 365 x 1058 | 510 x 365 x 1195 + 510 x 365 x 1058 |
| Weight [kg] | 278 | 311.5 | 353.8 | 387.3 | 420.8 | 454.3 |

| | T-BAT HS7.2~T-BAT HS46.8 |
|---|---|
| **BMS** | |
| Model | TBMS-MCS0800 |
| Dimensions (Lx W x H) [mm] | 510 x 365 x 157 |
| Weight [kg] | 10 |
| **BATTERY MODULE** | |
| Battery Model | TP-HS3.6 |
| Battery Type | Li-ion (LFP) |
| Battery Module [kWh] | 3.6 |
| Dimensions (Lx W x H) [mm] | 510 x 365 x 152 |
| Weight [kg] | 33.5 |
| **SERIES BOX** | |
| Dimensions (L x W x H) [mm] | 510 x 365 x 152 |
| Weight [kg] | 8.8 |
| **GENERAL SPECIFICATION** | |
| Installation | Floor stand |
| Charge/discharge Temperature Range [°C ] | 0 to 53 (charge) (Without build-in heating function)<br>-20 to 53 (discharge)<br>-30 to 53 (charge/discharge)(Build-in heating function) |
| Max.operating altitude [m] | < 3000 |
| Environment | Outdoor / Indoor (*Please refer to the user manual for installation condition) |
| Protection Degree | IP65 |
| Relative humidity [%] | 5-95%RH (non-condensing) |
| **STANDARD AND CERTIFICATION** | |
| Certification | IEC62619, IEC60730, IEC62040, CE, UN38.3 |

①Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C
②Max. charge / discharge current may be variant with different inverter models
③Recommend / Max. Charging / Discharging Current* / Nominal / Max. Power*: Recommend / Max. charging/discharging current and Nominal / Max. power derating will occur related to Temperature and SOC.

*V1.2 Information may be subject to modify without notice.*



# T-BAT-SYS-HV-S25
# T-BAT-SYS-HV-S36

## Installation Manual

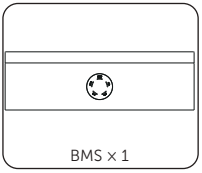
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http://kb.solaxpower.com/

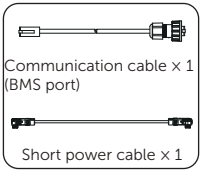
www.solaxpower.com

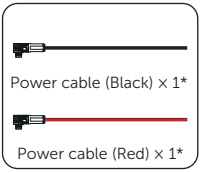
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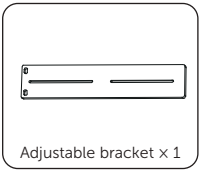
## Packing List

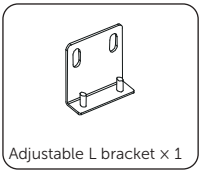
BMS (TBMS-MCS0800)

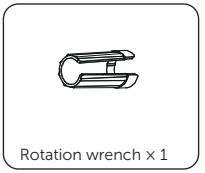

BMS × 1

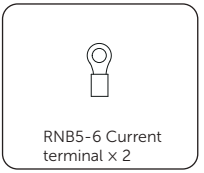


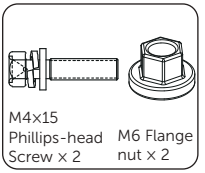



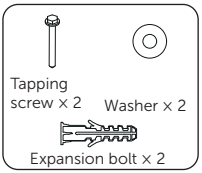


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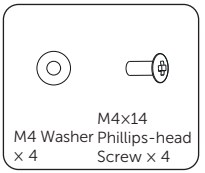

Adjustable L bracket × 1

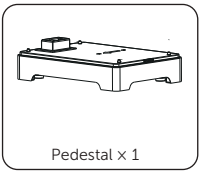

Rotation wrench × 1

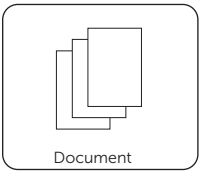

RNB5-6 Current terminal × 2



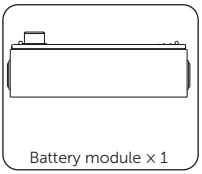



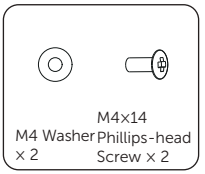


Pedestal × 1

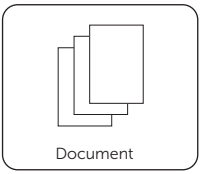

Document

*Note: The mark "*" indicates that the connector connecting inverter on the power cable, connecting BMS and inverter, is delivered with the inverter's accessories kit.

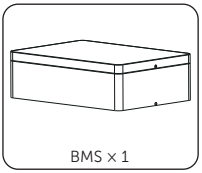
Battery Module (TP-HS25/ TP-HS36)

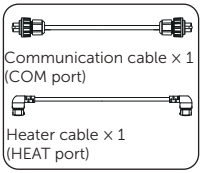

Battery module × 1

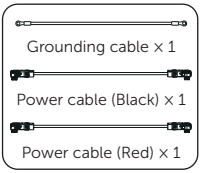


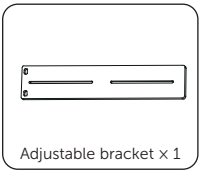


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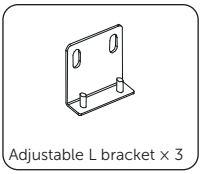
Series Box

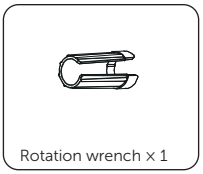


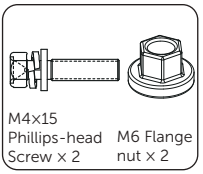



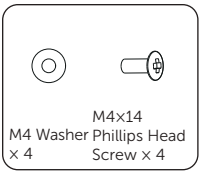



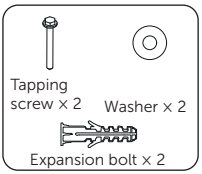



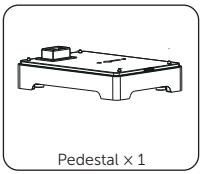




*Note:
1. If the battery module purchased excesses 10 sets (including 10), these battery modules should be installed in two groups, and the Series Box should be installed to connect two groups in series.
2. If the battery module purchased is less than 9 sets (including 9), these battery modules may be installed in one or two groups. In case of two groups, the Series Box is recommended to install.
3. Additionally, the above accessories kit for Series Box needs to be purchased by customers themselves.

## Installation Site

