


NEW FROM SOLAX

# HS50E-D



HS50E-D

## Features

### High Performance

- Max. 50A charge/discharge current
- -30°C to 53°C operational range with advanced heating technology
- Higher SOC/SOH accuracy through AI battery model algorithms
- Automotive-grade cell sampling chips for superior stability and safety

### Safety & Reliability

- Certified IP66 for outstanding protection
- Cobalt-free LFP battery: safe, long-lasting, efficient, high energy density
- A robust cycle life of over 6,000 times, ensuring longevity and reliability

### Flexibility

- Modular design, flexible expansion
- Start with 5.12kWh, expand up to 92.16kWh

### Easy Installation & Compatibility

- Lightweight, compact, and easy to set up
- Available in wall-mounted or floor-mounted options
- Fit a wide range of SolaX single and three-phase inverters

### Smart Management

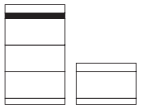
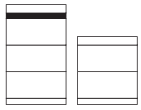
- AI-driven real-time monitoring and battery fault diagnosis
- Continuous OTA one-click upgrade

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# HS50E-D

| | T-BAT HS 5 | T-BAT HS 10 | T-BAT HS 15 | T-BAT HS 20 | T-BAT HS 25 | T-BAT HS 30 |
|---|---|---|---|---|---|---|
| Technical specification |  1 Module |  2 Modules |  3 Modules |  4 Modules |  5 Modules |  6 Modules |
| Norminal capacity [kWh] [1] | 5.1 | 10.2 | 15.3 | 20.4 | 25.6 | 30.7 |
| Usable energy 90% DOD (kWh) [2] | 4.6 | 9.2 | 13.8 | 18.4 | 23 | 27.6 |
| Nominal voltage [V] | 102.4 | 204.8 | 307.2 | 409.6 | 512 | 614.4 |
| Operating voltage [V] | 90-116 | 180-232 | 270-348 | 360-464 | 450-580 | 540-696 |
| Recommend charge/discharge current (A) [3] | 30 | 30 | 30 | 30 | 30 | 30 |
| Max. charge/discharge current (A) [4] | 50 | 50 | 50 | 50 | 50 | 50 |
| Standard power [kW] | 3 | 6.1 | 9.2 | 12.2 | 15.3 | 18.4 |
| Max. power [kW] | 5.1 | 10.2 | 15.3 | 20.4 | 25.6 | 30.7 |
| Depth of discharge | 90% | | | | | |
| Communication interface | RS485, CAN | | | | | |
| Dimensions (L × W × H) [mm] | 730*150*558 | 730*150*876 | 730*150*1194 | 730*150*1194<br>730*150*491 | 730*150*1194<br>730*150*809 | 730*150*1194<br>730*150*1127 |
| **BMS** | | | | | | |
| Model | TBMS-MCS0800E-D | | | | | |
| Dimensions (L × W × H) [mm] | 730*150*165 | | | | | |
| Weight [kg] | 9.7 | | | | | |
| **BATTERY MODULE** | | | | | | |
| Battery model | TP-HS50E | | | | | |
| Battery type | Li-ion (LFP) | | | | | |
| Battery module [kWh] | 5.1 | | | | | |
| Dimensions (L × W × H) [mm] | 730*150*318 | | | | | |
| Weight [kg] | 47 | | | | | |
| **SERIES BOX** | | | | | | |
| Dimensions (L × W × H) [mm] | 167*121*91.5 | | | | | |
| Weight [kg] | 1.3 | | | | | |
| **GENERAL SPECIFICATION** | | | | | | |
| Installation | Floor or wall mounting | | | | | |
| Charge / Discharge temperature range [℃][4] | 0~ 53(charge) (Off heating function)<br>-20~ 53 (discharge)(Off heating function)<br>-30 ~ 53(charge/discharge) (In heating function) | | | | | |
| Max. operating altitude [m] | 3000 | | | | | |
| Environment | Outdoor / Indoor (*Please refer to the user manual for installation condition) | | | | | |
| Protection degree | IP66 | | | | | |
| Relative humidity [%] | 5-95 (No condensation) | | | | | |
| **STANDARD AND CERTIFICATION** | | | | | | |
| Certification | CE,TUV(IEC62619),IEC 60730,IEC 62040,IEC63056, VDE 2510,IEC 60529:2013 (IP66) | | | | | |

1. Test conditions: 100% DOD, 0.2 C charge & discharge @ +25°C.
2. 90% DOD; System usable energy may vary with inverter different setting.
3. The battery can only be discharged and can not be charged when the battery cell's temperature range is between -20°C and 0°C
4. Discharge: In case of battery cell's temperature range of -20°C ~ 10°C and 45°C ~ 53°C, the discharge current will be reduced; Charge: In case of battery cell's temperature range of 0°C ~ 25°C and 45°C ~ 53°C, the charge current will be reduced. Product charge or discharge power depends on the actual temperature of the battery cell.