

High-voltage Battery System



T-BAT-SYS-HV-S2.5

5.12kWh ~ 33.28kWh

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech for low-temperature operation
- Optional parallel connection using a two-in-one cable for easy capacity expansion and extend battery lifespan

High Performance

- 5.1-33.2 kWh wide capacity range
- Max. 50A charging/discharging current
- Cycle life > 6000 times

Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree
- Soft start to protect from a sudden surge

Flexible Adaptability

- Extendable capacity for lifetime use
- Stackable modules, plug and play design

	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 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules
SYSTEM DATA						
Nominal energy	5.12 kWh	7.68 kWh	10.24 kWh	12.80 kWh	15.36 kWh	17.92 kWh
Usable energy (90%DOD) ^①	4.6 kWh	6.9 kWh	9.2 kWh	11.5 kWh	13.8 kWh	16.1 kWh
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	90 ~ 116 V	135 ~ 174 V	180 ~ 232 V	225 ~ 290 V	270 ~ 349 V	315 ~ 406 V
Recommend charging / discharging current ^②	30 A					
Max. charging / discharging current ^{②③}	50 A					
Standard power ^②	3.1 kW	4.6 kW	6.1 kW	7.7 kW	9.2 kW	10.8 kW
Max. power ^②	5.12 kW	7.68 kW	10.24 kW	12.80 kW	15.36 kW	17.92 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L × W × H)	510 × 365 × 522 mm	510 × 365 × 659.5 mm	510 × 365 × 797 mm	510 × 365 × 934.5 mm	510 × 365 × 1072 mm	510 × 365 × 1209.5 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 Modules	9 Modules	10 Modules	11 Modules	12 Modules	13 Modules
SYSTEM DATA						
Nominal energy	20.48 kWh	23.04 kWh	25.60 kWh	28.16 kWh	30.72 kWh	33.28 kWh
Usable energy (90%DOD) ^①	18.4 kWh	20.7 kWh	23.0 kWh	25.3 kWh	27.6 kWh	29.9 kWh
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	360 ~ 465 V	405 ~ 522 V	450 ~ 580 V	495 ~ 636 V	540 ~ 695 V	585 ~ 750 V
Recommend charging / discharging current ^②	30 A					
Max. charging / discharging current ^{②③}	50 A					
Standard power ^②	12.3 kW	13.8 kW	15.4 kW	16.9 kW	18.4 kW	20.0 kW
Max. power ^②	20.48 kW	23.04 kW	25.60 kW	28.16 kW	30.72 kW	33.28 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L × W × H)	510 × 365 × 1347 mm	510 × 365 × 1484.5 mm	510 × 365 × 934.5 mm + 510 × 365 × 934.5 mm	510 × 365 × 1072 mm + 510 × 365 × 934.5 mm	510 × 365 × 1072 mm + 510 × 365 × 1072 mm	510 × 365 × 1209.5 mm + 510 × 365 × 1072 mm

BMS	
Model	TBMS-MCS0800
Dimensions (L × W × H)	510 × 365 × 157 mm
Weight	13 kg
BATTERY MODEL	
Battery model	TP-HS25
Battery type	Li-ion (LFP)
Battery capacity	2.5 kWh
Dimensions (L × W × H)	510 × 365 × 152 mm
Weight	34 kg
Installation type	Stackable level package
SERIES BOX	
Dimensions (L × W × H)	510 × 365 × 157 mm
Weight	10 kg
GENERAL SPECIFICATION	
Installation	Floor stand
Charge / discharge temperature range (without heating)	0 ~ 53°C (charge) -20 ~ 53°C (discharge)
Charge / discharge temperature range (with heating)	-30 ~ 53°C (charge / discharge)
Max. operating altitude	< 3000 m
Environment	Outdoor / indoor (*please refer to the user manual for installation condition)
Protection degree	IP65
Relative humidity	4 ~ 100% RH (Condensing)
STANDARD AND CERTIFICATION	
Certificates	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3

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

② Recommend / max. charging / discharging current* / nominal / max. power*: recommend / max. charging / discharging current and nominal / max. power derating will occur related to temperature and SOC

③ Max. charge / discharge current may be variant with different inverter models

High-voltage Battery System



T-BAT-SYS-HV-S3.6

7.37kWh ~ 47.92kWh

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech for low-temperature operation
- Optional parallel connection using a two-in-one cable for easy capacity expansion and extend battery lifespan

High Performance

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

Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree
- Soft start to protect from a sudden surge

Flexible Adaptability

- Extendable capacity for lifetime use
- Stackable modules, plug and play design

	T-BAT HS7.2	T-BAT HS10.8	T-BAT HS14.4	T-BAT HS18.0	T-BAT HS21.6	T-BAT HS25.2
Technical Specification	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules
SYSTEM PARAMETERS						
Nominal energy	7.37 kWh	11.06 kWh	14.75 kWh	18.43 kWh	22.12 kWh	25.80 kWh
Usable energy(90% DOD) ^①	6.6 kWh	10.0 kWh	13.3 kWh	16.6 kWh	19.9 kWh	23.2 kWh
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	90 ~ 116 V	135 ~ 174 V	180 ~ 232 V	225 ~ 290 V	270 ~ 349 V	315 ~ 406 V
Recommend charge / discharge current ^②	35 A					
Max. charge / discharge current ^{②③}	50 A					
Nominal power ^③	3.5 kW	5.3 kW	7.1 kW	8.9 kW	10.7 kW	12.5 kW
Max. power ^③	5.1 kW	7.6 kW	10.2 kW	12.8 kW	15.3 kW	17.9 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L x W x H)	510 x 365 x 522 mm	510 x 365 x 659.5 mm	510 x 365 x 797 mm	510 x 365 x 934.5 mm	510 x 365 x 1072 mm	510 x 365 x 1209.5 mm

	T-BAT HS28.8	T-BAT HS32.4	T-BAT HS36.0	T-BAT HS39.6	T-BAT HS43.2	T-BAT HS46.8
Technical Specificatio	8 Modules	9 Modules	10 Modules	11 Modules	12 Modules	13 Modules
SYSTEM PARAMETERS						
Nominal energy	29.49 kWh	33.18 kWh	36.86 kWh	40.55 kWh	44.24 kWh	47.92 kWh
Usable energy(90% DOD) ^①	26.5 kWh	29.9 kWh	33.2 kWh	36.5 kWh	39.8 kWh	43.1 kWh
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	360 ~ 465 V	405 ~ 522 V	450 ~ 580 V	495 ~ 636 V	540 ~ 695 V	585 ~ 750 V
Recommend charge / discharge current ^②	35 A					
Max. charge / discharge current ^{②③}	50 A					
Nominal power ^③	14.3 kW	16.1 kW	17.9 kW	19.7 kW	21.5 kW	23.3 kW
Max. power ^③	20.4 kW	23.0 kW	25.6 kW	28.1 kW	30.7 kW	33.2 kW
Depth of discharge	90%					
Communication interface	RS485, CAN					
Dimensions (L x W x H)	510 x 365 x 1347 mm	510 x 365 x 1484.5 mm	510 x 365 x 934.5 mm + 510 x 365 x 934.5 mm	510 x 365 x 1072 mm + 510 x 365 x 934.5 mm	510 x 365 x 1072 mm + 510 x 365 x 1072 mm	510 x 365 x 1209.5 mm + 510 x 365 x 1072 mm

BMS	
Model	TBMS-MCS0800
Dimensions (W x H x D)	510 x 365 x 157 mm
Weight	13 kg
BATTERY MODEL	
Battery model	TP-HS36
Battery type	Li-ion (LFP)
Battery module	3.6 kWh
Dimensions (L x W x H)	510 x 365 x 152 mm
Weight	34 kg
SERIES BOX	
Dimensions (L x W x H)	510 x 365 x 157 mm
Weight	10 kg
GENERAL SPECIFICATION	
Installation	Floor Stand
Charge / discharge temperature range (without heating)	0 ~ 53°C (Charge) -20 ~ 53°C (Discharge)
Charge / discharge temperature range (with heating)	-30 ~ 53°C (Charge / Discharge)
Max. operating altitude	< 3000 m
Environment	Outdoor / Indoor (*Please refer to the user manual for installation condition)
Protection degree	IP65
Relative humidity	4 ~ 100% RH (Condensing)
STANDARD AND CERTIFICATION	
Certification	IEC 62619, IEC 60730, IEC 62040, CE, UN38.3

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

High-voltage Battery System



T-BAT H 3.0 V2

T-BAT H 3.0 V2



	T-BAT H 3.0 T-BAT H 3.0 V2	T-BAT H 6.0 T-BAT H 6.0 V2	T-BAT H 9.0 T-BAT H 9.0 V2	T-BAT H 12.0 T-BAT H 12.0 V2
Nominal voltage	102.4 V	204.8 V	307.2 V	409.6 V
Operating voltage range	90 ~ 116 V	180 ~ 232 V	270 ~ 348 V	360 ~ 464 V
Total energy	3.1 kWh	6.1 kWh	9.2 kWh	12.3 kWh
Usable energy ^①	2.8 kWh	5.5 kWh	8.3 kWh	11.0 kWh
Rated capacity	30 Ah			
Nominal power	2.5 kW	5.1 kW	7.6 kW	10.2 kW
Max. power	3.1 kW	6.1 kW	9.2 kW	12.3 kW
Recommend charge / discharge current	25 A			
Max. charge / discharge current ^②	30 A			
Battery roundtrip efficiency	95%			
Cycle life [90% DOD]	6000 cycles			
Expected life time / warranty	10 years			
Available charge / discharge temperature range	-30 ~ 50°C			
Storage temperature	-20 ~ 30°C (12 months) 30 ~ 50°C (6 months)			
Relative humidity	4 ~ 100% RH (condensing)			
Altitude	< 3000 m			
Ingress protection	IP65			
Battery to Inverter	RS485 / CAN2.0			
Battery to battery / BMS	CAN2.0			
Master control capacity indicator	4 LED (25%, 50%, 75%, 100%)			
Master control LED indicator (working mode)	1 LED			
System switch (on / off)	Button × 1 + Breaker × 1			
Safety	CE, IEC62619, IEC62040, UKCA, VDE2510, RoHS			
UN number	UN3480			
Hazardous materials classification	Class 9			
UN transportation testing requirements	UN 38.3			
Dimensions (W × H × D)	MC0600: 482.5 × 173.5 × 153 mm HV10230: 482.5 × 471.5 × 153 mm			
Net weight	MC0600: 7.5 kg + HV10230: 34.5 kg	MC0600: 7.5 kg + 2 × HV10230: 69 kg	MC0600: 7.5 kg + 3 × HV10230: 103.5 kg	MC0600: 7.5 kg + 4 × HV10230: 138 kg

Smart Management

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

Assured Reliability

- LiFePO4 battery cell & high-performance processors
- Safety Certifications: CE, UN38.3, etc.
- IP65 protection degree

High Performance

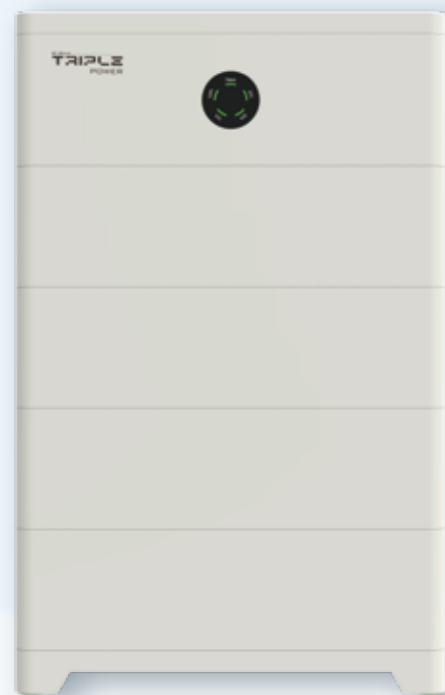
- Cycle life > 6000 times
- High capacity utilization
- Efficient energy transfer

Flexible Adaptability

- Compatible with BMS-Parallel Box-II G2, up to 2 towers of batteries
- Stackable modules, supporting floor mounting

① Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C
② Max. charge / discharge current may be variant with different inverter models

High-voltage Battery System



TSYS-HS51

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Unique battery heating tech and wide temperature tolerance
- Optional parallel connection using a two-in-one cable for easy capacity expansion and extend battery lifespan

High Performance

- 10.2 - 66.5 kWh wide capacity range
- Max. 70A charging / discharging current
- Cycle life > 6000 times

Assured Reliability

- IP66 protection degree
- LiFePO4 battery cell & high-performance processors

Flexible Adaptability

- Compatible with TCBox-70, up to 3 towers of batteries
- Compact and stackable for easy installation

	T-HS10.2	T-HS15.3	T-HS20.4	T-HS25.6	T-HS30.7	T-HS35.8
SYSTEM SPECIFICATION						
Number of modules	2	3	4	5	6	7
Nominal capacity	10.2 kWh	15.3 kWh	20.4 kWh	25.6 kWh	30.7 kWh	35.8 kWh
Usable energy (90% DOD) ^①	9.1 kWh	13.7 kWh	18.3 kWh	23.0 kWh	27.6 kWh	32.2 kWh
Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V
Operating voltage range	85 ~ 116 V	128 ~ 174 V	170 ~ 232 V	212 ~ 289 V	255 ~ 347 V	297 ~ 405 V
Nominal operation current ^②	60 A					
Maximum operation current ^{②③}	70 A					
Nominal power ^③	6.1 kW	9.2 kW	12.3 kW	15.4 kW	18.4 kW	21.5 kW
Maximum power ^③	7.2 kW	10.8 kW	14.3 kW	17.9 kW	21.5 kW	25.1 kW
Depth of discharge	90%					
Communication interfaces	CAN + RS485					
Dimension (W x H x D)	600 x 621 x 376 mm	600 x 789 x 376 mm	600 x 957 x 376 mm	600 x 1125 x 376 mm	600 x 1293 x 376 mm	600 x 1461 x 376 mm

	T-HS40.9	T-HS46.0	T-HS51.2	T-HS56.3	T-HS61.4	T-HS66.5
SYSTEM SPECIFICATION						
Number of modules	8	9	10	11	12	13
Nominal capacity	40.9 kWh	46.0 kWh	51.2 kWh	56.3 kWh	61.4 kWh	66.5 kWh
Usable energy (90% DOD) ^①	36.8 kWh	41.4 kWh	46.0 kWh	50.6 kWh	55.2 kWh	59.8 kWh
Nominal voltage	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V
Operating voltage range	340 ~ 463 V	382 ~ 520 V	424 ~ 578 V	467 ~ 636 V	509 ~ 694 V	552 ~ 750 V
Nominal operation current ^②	60 A					
Maximum operation current ^{②③}	70 A					
Nominal power ^③	24.6 kW	27.6 kW	30.7 kW	33.8 kW	36.9 kW	39.9 kW
Maximum power ^③	28.7 kW	32.3 kW	35.8 kW	39.4 kW	43.0 kW	46.6 kW
Depth of discharge	90%					
Communication interfaces	CAN + RS485					
Dimension (W x H x D)	600 x 1629 x 376 mm	600 x 957 x 376 mm + 600 x 1125 x 376 mm	600 x 1125 x 376 mm + 600 x 1125 x 376 mm	600 x 1293 x 376 mm + 600 x 1125 x 376 mm	600 x 1293 x 376 mm + 600 x 1293 x 376 mm	600 x 1461 x 376 mm + 600 x 1293 x 376 mm

BMS	
Model	TBMS-S51-8
Dimensions (W x H x D)	600 x 225 x 376 mm
Weight	18.5 kg
BATTERY MODEL	
Model	TB-HS51
Battery type	Li-ion (LFP)
Cycle life (90% DOD)	6000
Module capacity	5.1 kWh
Dimension (W x H x D)	600 x 168 x 376 mm
Weight	46 kg
Installation type	Stackable Level Package
SERIES BOX	
Dimensions (L x W x H)	600 x 225 x 376 mm
Weight	15 kg
GENERAL SPECIFICATION	
Installation	Floor Stand
Charge / discharge temperature range (without heating)	0 ~ 53°C (Charge) -20 ~ 53°C (Discharge)
Charge / discharge temperature range (with heating)	-30 ~ 53°C (Charge / Discharge)
Relative humidity	4 ~ 100% RH (Condensing)
Altitude	< 3000 m
Environment	Outdoor / Indoor
Protection degree	IP66
STANDARD & CERTIFICATION	
Safety	IEC62619, IEC60730, IEC62040, EN62477, UKCA, VDE 2510
Transport testing requirement	UN38.3

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

② Max. charge / discharge current may be variant with different inverter models

③ Nominal / Maximum operation current and nominal / maximum power derating will occur related to temperature or SOC

High-voltage Battery System



T-BAT H 5.8
(Master)



T-BAT H 5.8 V2
(Master)



HV11550 / HV11550 V2
(Slave)



High Performance

- 90% Depth of Discharge (DOD)
- Cycle life > 6000 times



Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree
- No toxic heavy metals or caustic materials



Smart Management

- Remote fault diagnosis, upgrade and maintenance



Flexible Adaptability

- Floor or wall mounting optional

T-BAT H 5.8
T-BAT H 5.8 V2

T-BAT H 11.5
T-BAT H 11.5 V2

T-BAT H 17.3
T-BAT H 17.3 V2

T-BAT H 23
T-BAT H 23 V2

NOMINAL CHARACTER				
Nominal voltage	115.2 V	230.4 V	345.6 V	460.8 V
Operating voltage	100 ~ 131 V	200 ~ 262 V	300 ~ 393 V	400 ~ 524 V
Battery type	Li-ion (LFP)			
Total capacity	5.8 kWh	11.5 kWh	17.3 kWh	23.0 kWh
Usable capacity ^①	5.1 kWh	10.4 kWh	15.5 kWh	20.7 kWh
Battery roundtrip efficiency	95%			
Standard power	2.8 kW	5.7 kW	8.6 kW	11.5 kW
Max power	4.0 kW	8.0 kW	12.0 kW	16.1 kW
Recommend charge / discharge current	25 A			
Max charge / discharge current	35 A			
Short circuit current	760 A			
Cycle life	> 6000 cycles			
Warranty	10 years			
ENVIRONMENT REQUIREMENT				
Operating temperature	Charge: 0 ~ 55°C / Discharge: -10 ~ 55°C			
Full-load operating temperature	5 ~ 48°C			
Storage temperature	-20 ~ 30°C (12 months), 30 ~ 55°C (6 months)			
Relative humidity	4 ~ 100% RH (condensing)			
Altitude	< 2000 m			
Ingress protection	IP65			
COMMUNICATION				
System to inverter	CAN2.0			
Battery to battery / BMS	RS485			
Data collection port / FW update	CAN2.0			
Master control working mode indicator	1 LED			
Master control capacity indicator	4 LED (25%, 50%, 75%, 100%)			
Battery module LED	2 LED			
Reset	Button			
Switch ON / OFF	Button × 1 + breaker × 1			
STANDARD				
Safety (V1)	CE, IEC 62619, UKCA, VDE2510, JIS-C 8715, UL1973, FCC, REACH			
Safety (V2)	CE, IEC 62040, IEC 62619, UKCA, VDE2510, RoHS, REACH			
UN number	UN3480			
Hazardous materials classification	Class 9			
Transport testing requirement	UN38.3			
GENERAL				
Dimensions (L × W × H)	474 × 193 × 708 mm	474 × 193 × 708 mm + 474 × 193 × 647 mm	474 × 193 × 708 mm + (474 × 193 × 647 mm) × 2	474 × 193 × 708 mm + (474 × 193 × 647 mm) × 3
Weight	72.2 kg	72.2 kg + 68.5 kg	72.2 kg + 68.5 kg × 2	72.2 kg + 68.5 kg × 3

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

* X3 Hybrid inverter can connect 2-4pcs of T58 batteries (1pc of T58 master, and rest 1-3pcs of T58 slave)

* X1 Hybrid inverter can connect 1-3pcs of T58 batteries (1pc of T58 master, without T58 slave, or with 1-2pcs of T58 slave)

* With BMS Parallel Box-II, the maximum battery quantity connected on each inverter varies, please kindly check datasheet of BMS Parallel Box-II

* Maximum Charge/Discharge Current may be variant with different inverter models

* HV11550 V1 and HV11550 V2 share the same appearance

High-voltage Battery System



T-BAT-SYS-HV-R2.5

5.1kWh ~ 33.2kWh



High Performance

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



Assured Reliability

- LiFePO4 battery cell (50Ah)
- 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 5kWh to 33kWh per string

T-BAT-SYS-HV-R2.5

SYSTEM PARAMETERS	
Voltage range	89.6 ~ 759.2 V
Recommend charge / discharge current	30 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-HR25
Specification	50 Ah
Nominal voltage	51.2 V
Operating voltage	44.8 ~ 58.4 V
Battery type	Li-ion (LFP)
Total energy	2.56 kWh
Usable energy ^①	2.3 kWh
Faradic charge efficiency	99%
Battery roundtrip efficiency	95%
Nominal power	1.2 kW
Dimensions (L x W x H)	442 x 391 x 130 mm
Weight	28 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.

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

T-BAT-SYS-HV-R3.6

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.

Low-voltage Battery System



T-BAT-SYS-LV-R25

2.5kWh ~ 40.9kWh



High Performance

- Cycle life > 6000 times
- High capacity utilization
- Efficient energy transfer



Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP20 protection degree
- Soft start to protect from BAT and INV a sudden surge



Smart Management

- Remote fault diagnosis, upgrade and maintenance



Flexible Adaptability

- Wall quick bracket, or cabinet mounting optional
- Easy to scale up

T-BAT-SYS-LV-R2.5

SYSTEM DATA								
TYPE / MODEL	T-BAT LR2.5	T-BAT LR5.0	T-BAT LR7.5	T-BAT LR10.0	T-BAT LR12.5	T-BAT LR15.0	T-BAT LR17.5	T-BAT LR20.0
Number of modules	1 Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
Nominal capacity	2.5 kWh	5.1 kWh	7.6 kWh	10.2 kWh	12.8 kWh	15.3 kWh	17.9 kWh	20.4 kWh
Usable capacity (90% DOD) ^①	2.3 kWh	4.6 kWh	6.9 kWh	9.2 kWh	11.5 kWh	13.8 kWh	16.1 kWh	18.4 kWh
Max.output current	50 A	85 A	120 A	120 A	120 A	120 A	120 A	120 A
Peak discharge current	60 A (60 s) 100 A (15 s)	120 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)

SYSTEM DATA								
TYPE / MODEL	T-BAT LR22.5	T-BAT LR25.0	T-BAT LR27.5	T-BAT LR30.0	T-BAT LR32.5	T-BAT LR35.0	T-BAT LR37.5	T-BAT LR40.0
Number of modules	9 Modules	10 Modules	11 Modules	12 Modules	13 Modules	14 Modules	15 Modules	16 Modules
Nominal capacity	23.0 kWh	25.6 kWh	28.1 kWh	30.7 kWh	33.2 kWh	35.8 kWh	38.4 kWh	40.9 kWh
Usable capacity (90% DOD) ^①	20.7 kWh	23.0 kWh	25.3 kWh	27.6 kWh	29.9 kWh	32.2 kWh	34.5 kWh	36.8 kWh
Max.output current	120 A	120 A	120 A	120 A	120 A	120 A	120 A	120 A
Peak discharge current	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)

GENERAL INFO	
Nominal voltage	51.2 V
Operating voltage range	45 ~ 58 V
Battery type	Lithium iron phosphate
Communication port	CAN + RS485
Working temperature	0 ~ 55°C (charge) -20 ~ 55°C(discharge)
Storage temperature	30 ~ 50°C (6 months) -20 ~ 30°C (12 months)
IP rating of enclosure	IP20
Cooling type	Natural cooling
T-BAT LR2.5 Dimensions (L x W x H)	442 x 420 x 130 mm
T-BAT LR2.5 Weight	30 kg
Relative humidity	5 ~ 95% RH (Non-condensing)
Altitude	< 3000 m
Warranty	10 years
Cycle life (90% DOD)	> 6000 cycles
Certification	IEC62619, IEC62040, CE, UN38.3

① Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C
Note: The battery system consists of 2 to 16 modules.

Low-voltage Battery System



T-BAT-SYS-LV-R36

3.6kWh ~ 58.8kWh

High Performance

- Long cycle life > 6000 times
- High capacity utilization
- Efficient energy transfer

Assured Reliability

- LiFePO4 battery cell & high-performance processors
- No toxic heavy metals or caustic materials
- Soft start to protect BAT and INV from a sudden surge

Smart Management

- Remote fault diagnosis, upgrade and maintenance

Flexible Adaptability

- Wall quick bracket, or cabinet mounting optional
- Easy to scale up

T-BAT-SYS-LV-R3.6

SYSTEM DATA								
TYPE / MODEL	T-BAT LR3.6	T-BAT LR7.2	T-BAT LR10.8	T-BAT LR14.4	T-BAT LR18.0	T-BAT LR21.6	T-BAT LR25.2	T-BAT LR28.8
Number of Modules	1 Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
Nominal capacity	3.6 kWh	7.3 kWh	11.0 kWh	14.7 kWh	18.4 kWh	22.0 kWh	25.7 kWh	29.4 kWh
Usable capacity (90% DOD) ^①	3.3 kWh	6.6 kWh	9.9 kWh	13.2 kWh	16.5 kWh	19.8 kWh	23.1 kWh	26.4 kWh
Max.output current	50 A	85 A	120 A	120 A	120 A	120 A	120 A	120 A
Peak discharge current	60 A (60 s) 100 A (15 s)	120 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)

SYSTEM DATA								
TYPE / MODEL	T-BAT LR32.4	T-BAT LR36.0	T-BAT LR39.6	T-BAT LR43.2	T-BAT LR46.8	T-BAT LR50.4	T-BAT LR54.0	T-BAT LR57.6
Number of Modules	9 Modules	10 Modules	11 Modules	12 Modules	13 Modules	14 Modules	15 Modules	16 Modules
Nominal capacity	33.1 kWh	36.8 kWh	40.4 kWh	44.1 kWh	47.8 kWh	51.5 kWh	55.2 kWh	58.8 kWh
Usable capacity (90% DOD) ^①	29.8 kWh	33.1 kWh	36.4 kWh	39.7 kWh	43.0 kWh	46.3 kWh	49.6 kWh	52.9 kWh
Max.output current	120 A	120 A	120 A	120 A	120 A	120 A	120 A	120 A
Peak discharge current	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)	150 A (60 s) 200 A (15 s)

GENERAL INFO	
Nominal voltage	51.2 V
Operating voltage range	45 ~ 58 V
Battery type	Lithium iron phosphate
Communication port	CAN, RS485
Working temperature	0 ~ 55°C (charge) -20 ~ 55°C (discharge)
Storage temperature	30 ~ 50°C (6 months) -20 ~ 30°C (12 months)
IP rating of enclosure	IP20
T-BAT LR3.6 Dimensions (L x W x H)	442 x 420 x 130 mm
T-BAT L3.6 Weight	33 kg
Cooling type	Natural cooling
Relative humidity	5 ~ 95% RH (Non-condensing)
Altitude	< 3000 m
Warranty	5 years
Cycle life (90% DOD)	> 6000 cycles
Certification	IEC62619, IEC62040, CE, UN38.3

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

Note: The battery system consists of 2 to 16 modules.

Low-voltage Battery System



T-BAT-SYS-LV D53



High Performance

- Peak discharge current: 200A for 10s
- Cycle life > 6000 times



Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- AI-driven intelligent algorithms for high SOC and accuracy



Flexible Adaptability

- Floor or wall mounting optional
- Modular design, expandable to 16 units in parallel

T-BAT-SYS-LV D53

SYSTEM PARAMETERS								
TYPE / MODEL	T-BAT LD53	T-BAT LD106	T-BAT LD159	T-BAT LD212	T-BAT LD265	T-BAT LD318	T-BAT LD371	T-BAT LD424
Number of Modules	1	2	3	4	5	6	7	8
Nominal capacity	5.3 kWh	10.6 kWh	15.9 kWh	21.2 kWh	26.6 kWh	31.9 kWh	37.2 kWh	42.5 kWh
Usable capacity (90% DOD) ^①	4.7 kWh	9.5 kWh	14.3 kWh	19.1 kWh	23.9 kWh	28.7 kWh	33.5 kWh	38.3 kWh
Max. output current ^②	100 A	120 A						
Peak discharge current	200 A, 10s							

SYSTEM PARAMETERS								
TYPE / MODEL	T-BAT LD477	T-BAT LD530	T-BAT LD583	T-BAT LD636	T-BAT LD689	T-BAT LD742	T-BAT LD795	T-BAT LD848
Number of Modules	9	10	11	12	13	14	15	16
Nominal capacity	47.9 kWh	53.2 kWh	58.5 kWh	63.8 kWh	69.2 kWh	74.5 kWh	79.8 kWh	85.1 kWh
Usable capacity (90% DOD) ^①	43.1 kWh	47.9 kWh	52.7 kWh	57.5 kWh	62.3 kWh	67.0 kWh	71.8 kWh	76.6 kWh
Max. output current ^②	120 A							
Peak discharge current	200 A, 10s							

GENERAL INFORMATION	
Weight	48.5 kg
Dimension (L x W x H)	645 x 150 x 430 mm
Nominal voltage	51.2 V
Operating voltage range	45 ~ 58 V
Battery type	Lithium iron phosphate
Communication port	CAN / RS485
Operation temperature	0 ~ 53°C (charge) - 20 ~ 53°C (discharge)
Storage temperature	30 ~ 50°C (6 months) - 20 ~ 30°C (12 months)
Ingress protection	IP65
Colling concept	Natural cooling
Relative humidity	5 ~ 95% RH (Non-condensing)
Altitude	< 3000 m
Warranty ^④	10 years
Cycle life ^③ [90% DOD]	> 6000
Certification	IEC62619, IEC62040, CE, UN38.3

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 25°C ± 2°C, 0.5C / 0.5C, 70% EOL > 6000

④ The warranty is due whichever reached first of warranty period or energy throughput

Low-voltage Battery System



T-BAT-SYS-LV D150

T-BAT-SYS-LV D150

Battery type	Lithium iron phosphate
Battery component	1P5S x 3
Nominal voltage	48 V
Operating voltage range	42 ~ 54 V
Rated capacity	314 Ah
Nominal energy	15 kWh
Usable energy (90% DOD) ^①	13.5 kWh
Max. charge / discharge current	155 A
Peak discharge current	310 A, 10 s
Cycle life ^②	> 6000 Cycles
Communication interfaces	CAN / RS485
Operation temperature	0 ~ 55°C (charge) -20 ~ 55°C (discharge)
Storage temperature	30 ~ 60°C (6 months) -20 ~ 30°C (1 year)
Max. parallel number	16 pcs
Dimension (L x W x H)	900 x 540 x 220 mm
Weight	125 kg
Installation type	Floor
Degree of protection	IP65
Cooling concept	Natural cooling
Warranty	5 years
Max. operation altitude	3000 m
Certification	UN38.3, IEC62619, CE

① DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C
 ② 25°C ± 2°C, 0.5C / 0.5C, 70 % EOL > 6000



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- AI-driven intelligent algorithms for high SOC and accuracy



Assured Reliability

- LiFePO4 battery cell & high-performance processors
- IP65 protection degree



High Performance

- Peak discharge current: 310A for 10s
- Cycle life > 6000 times



Flexible Adaptability

- Quick and easy installation
- Modular design, expandable to 16 units in parallel