

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.