

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

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