

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

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.