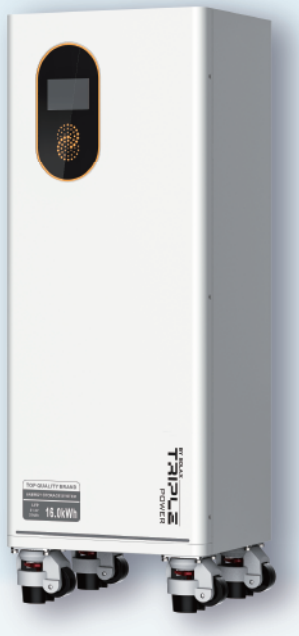
Low-voltage Battery System



TSYS-LD160

16.0 kWh

TSYS-LD143

14.3 kWh

High Performance

- 16 ~ 256 kWh (LD160) / 14.3 ~ 229.3 kWh (LD143) wide capacity range
- Max. 155 A / 220 A (LD160), 140 A / 225 A (LD143) charge / discharge current
- Cycle life > 8000 cycles

Assured Reliability

- IP55 ingress protection
- LFP battery cell & high-performance processors
- Aerosol fire suppression for precise protection

Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Wide temperature tolerance
- User-friendly LCD touchscreen for intuitive and easy interaction

Flexible Adaptability

- Expandable to 16 units in parallel
- CTP (Cell-to-Pack) design maximizes space and energy density for superior performance
- Pulley design enables more convenient installation

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*V1.0. Information may be subject to modify without notice. 650.00121.00

	TSYS-LD160	TSYS-LD143
GENERAL INFORMATION		
Battery model	TB-LD160	TB-LD143
Battery type	LFP	
Scalability	Max. 16 pcs in parallel	
Nominal voltage	51.2 Vdc	
Operating voltage range	42.4 ~ 57.6 Vdc	
Nominal energy	16 kWh	14.3 kWh
Usable energy (95% DOD)①	15.2 kWh	13.6 kWh
Rated power	7.9 kW	7.1 kW
Max. power	11.2 kW	11.5 kW
Peak output power	15.8 kW, 10s	14.3 kW, 10s
Recommend charge / discharge current	155 A	140 A
Max. charge / discharge current②	155 A / 220 A	140 A / 225 A
Depth of discharge	95%	
Cycle life (95% DOD)③	> 8000 cycles	
Dimensions (W x H x D)	356 x 953 x 289mm	
Net weight	118.5 kg	115.5 kg
Warranty	10 Years	
ENVIRONMENTAL REQUIREMENTS		
Charge temperature	0 ~ +55°C	
Discharge temperature	-20 ~ +55°C	
Cooling concept	Natural cooling	
Storage temperature	-20 ~ +30°C (12 months) 30 ~ +60°C (6 months)	
Relative humidity	5 ~ 95% RH (non-condensing)	
Max. operating altitude	3000 m	
Installation type	Floor mounting	
Ingress protection	IP55	
Environment	Indoor	
COMMUNICATION INTERFACES		
Display	Indicators / LCD	
Communication interfaces	CAN2.0 / RS485	
STANDARD		
Hazardous materials classification	Class 9	
Transport testing requirement	UN38.3	
Protection class	Class I	
Certifications	IEC 62619, CE-LVD, CE-EMC	

① Test conditions: 95% DOD, 0.5C charge & discharge @+25°C
② Current is affected by the number of batteries connected in parallel as well as temperature and SOC
③ Test conditions: 25 ± 2°C,0.5C charge & discharge, 70%EOL