

ENERGY STORAGE SYSTEM

TK-51.2 Series



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We are a well-established battery manufacturer from India, already achieved a production capacity of 1Gwh. With vast Research & Development, inhouse testing to Design & Develop- we produce fully customised Lithium energy storage solutions as per client's requirements.

Trontek Home Energy Storage System comes in 3 variants (10.24kWh/16.08kWh/28.67kWh), all are compatible with major Inverter brands.



KEY FEATURES

- RS485/CAN
- Installation : Wall/Floor mounted.
- Matched with various global top inverter brands.
- High safety standard of LFP (LiFePO4) cell.
- Long life battery design supported by the efficient equalization technology.
- Advanced BMS protection functions.

CHARACTERISTICS

- Secure and efficient battery
- Compact design and easy installation
- Extensively secured management of the battery.
- Operational insights and performance metrics can be viewed on smartphones.
- System can be controlled via remote.

APPLICATION

- Used in residential, industrial and commercial areas to:
- Act as a power source
 - Store excess electricity
 - generation
 - Help go off-grid
 - Lower the power cost incurred
 - Minimize power loss
 - Fulfill peak demand of power
 - Improve power system network

MAKE YOUR HOME GREEN

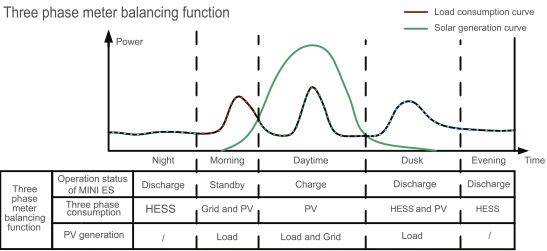
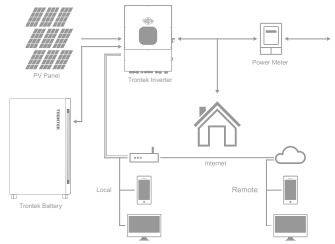
Just connect your existing Photovoltaic system or install a new one with a Hybrid inverter to be immediately energy independent

INTELLIGENT BMS

For Prolonged Cyclic Life of Lithium Battery

Trontek intelligent BMS is a full featured Battery Management System specifically designed to protect and monitor Lithium ion battery packs for electric vehicle application.

SYSTEM ARCHITECTURE



TECHNICAL SPECIFICATIONS

Model	TK-51200	TK-51314	TK-51560
Capacity	10.24kWh	16.08kWh	28.67kWh
Battery Voltage	51.2 VDC		
Voltage Range	44.8-58.4V		
Cycle life(80% DOD, 25°C)	6000		
Cell type	LFP		
Standard Charge Current	100A		
Standard Discharge Current	100A		
Max. Charge Current	200A		
Max. Discharge Current	200A		
Module Parallel	Up to 16 packs		
Battery Protection	Over-current/Over-voltage/Short-circuit/Under-voltage/Over temperature		
Charge Temperature	0°C to 55°C		
Discharge Temperature	-20°C to 60°C		
PHYSICAL			
Dimension, W x D x H(mm)	525x170x992	450x255x992	534x432x1030
Net Weight (kg)	≤110	≤120	≤250
Communication Interface	Rs485 / CAN		
IP Protection	IP54		
Installation	Wall mounted / Floor mounted		
ENVIRONMENT			
Humidity	5% to 95% Relative humidity (Non-condensing)		
Operating Temperature	-20°C to 60°C		
Storage Temperature	-15°C to 60°C		
WARRANTY			
Warranty	5 years		
Life Span	10 years		