

# Battery Trontek Powercube 2



## Battery Trontek Power Cube 5.4 kWh (51.2V / 105Ah)

Field	Details
Brand	Trontek
Product Name	Power Cube 5.4
Battery Capacity	5.4 kWh
Nominal Voltage	51.2V
Battery Capacity (Ah)	105Ah
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)
Battery Type	Energy Storage Battery
Application	Residential Solar Storage, Hybrid Solar Systems, Off-Grid Systems, Backup Power Solutions
Communication	CAN / RS485 (Model Dependent)
Scalability	Parallel Expansion Supported
Built-in BMS	Yes
Technical Specifications	Solar & Grid Charging
Field	Details
Nominal Energy	5.38 kWh (Approx. 5.4 kWh)
Nominal Voltage	51.2V
Nominal Capacity	105Ah
Maximum Power (Pmax)	5.4 kWh Energy Storage
Open Circuit Voltage (Voc)	N/A (Battery Product)
Short Circuit Current (Isc)	Protected by Integrated BMS
Module Efficiency	>98% Energy Efficiency
Cell Configuration	16S LiFePO4
Number of Cells	16 Cells
Charge Method	CC-CV (Constant Current / Constant Voltage)
Maximum Charge Voltage	57.6V

Charge Current	Up to 50A
Maximum Charge Current	Up to 100A
Continuous Discharge Current	100A–120A
Peak Discharge Current	Up to 200A
Cycle Life	6000+ Cycles @ 80% DOD
Depth of Discharge (DOD)	Up to 95%
Protection Rating	IP65/IP66
Operating Temperature	-20°C to +60°C
<b>Mechanical Specifications</b>	
<b>Field</b>	<b>Details</b>
Installation Type	Floor Standing
Dimensions (Approx.)	500 × 240 × 220 mm
Weight	37–40 kg
Enclosure Material	Metal Cabinet
Cooling Method	Natural Cooling
Display	LCD / LED Status Indicators
Communication Ports	CAN, RS485
	4000+ Charge Cycles Designed Life
<b>Warranty</b>	
<b>Field</b>	<b>Details</b>
Product Warranty	5 Years
Performance Warranty	Up to 10 Years
Cycle Warranty	6000+ Charge/Discharge Cycles
<b>Key Features</b>	
5.4 kWh Energy Storage Capacity	
Advanced LiFePO4 Battery Technology	

6000+ Cycle Life	
Built-in Smart BMS Protection	
High Energy Efficiency (>98%)	
Parallel Expansion Supported	
CAN & RS485 Communication	
Low Maintenance Design	
Suitable for Hybrid & Off-Grid Solar Systems	
Compact and Space-Saving Power Cube Design	

## **Website Product Description**

### **Trontek Power Cube 5.4 kWh Lithium Battery**

The Trontek Power Cube 5.4 kWh is a high-performance LiFePO4 energy storage battery designed for residential and commercial solar applications. With a nominal voltage of 51.2V and a capacity of 105Ah, it delivers reliable backup power, enhanced energy efficiency, and long service life. The battery features an advanced Battery Management System (BMS) that provides protection against overcharging, over-discharging, short circuits, and temperature fluctuations. Its modular design allows easy scalability, making it an ideal solution for hybrid and off-grid solar installations.