

Features:

Safety

Intelligent early warning ensures energy storage safety; precise temperature control extends battery life by **12%.**

Simplicity

Single cabinet footprint of only **1.3m²**, modular rapid deployment, factory pre-assembly saves **15%** in overall costs.

Intelligence

Cloud-based smart operation and maintenance with AI remote monitoring and warnings ensure full battery lifecycle management; multi-mode switching increases profitability.

Scalability

Hand-in-hand parallel expansion supports a wide power range from **50 kW** to **300 kW.**

Technical Parameters

Model		YT-DS5T110-PV050-B03
PV	Maximum Input Power	96kW
	Startup Voltage	210V
	Maximum PV Voltage	1000VDC
	Rated PV Voltage	620VDC
	MPPT Operating Voltage Range	330-850VDC
	Number of MPPTs	4
	Number of Inputs per MPPT	2
	Maximum Input Current(per MPPT)	40A*4
	Maximum Short-Circuit Current (per MPPT)	50A*4
Battery	Nominal capacity	110kWh
	Battery capacity	314Ah
	Rated Voltage	352VDC
	Battery Voltage Range	308~396VDC
	Rated Charge/Discharge Current	140A
	Maximum Charge/Discharge Current	165A
AC	Rated Output Power	50kW
	Maximum Output Power	50kW
	Rated Input Power	50kW
	Maximum Input Power	50kW
	Rated Output Current	76A
	Maximum Output Current	76A
	Rated Voltage(Input and Output)	3LN/PE;400V
	Grid Frequency	50Hz/60Hz
	Total Voltage Harmonic Distortion	<3%@Rated Power &Linear Load
Temperature Control and Fire Protection	Temperature Control Type	Smart Air Conditioner、Smart Fan
	Fire Suppression Agent	Aerosol(or Perfluorohexanone)
	Fire Protection Control Type	Composite Detection、Cabinet-Level Suppression
Mechanical	Weight	Net Weight:1370kg Gross Weight(with packaging):1420kg
	Dimensions(W*D*H)	Unit Dimensions:1000×1320×2145mm Dimensions with Packaging:1070×1390×2285mm
	Communication Method	Ethernet、4G
Certification	Battery certification	IEC62619、IEC61000、UN38.3
	Inverter certification	IEC61000、IEC62477、IEC62109、EN50549-1
	Whole machine certification	IEC62109、IEC61000、UN38.3

■ Note: The inverter includes safety regulations and grid-connection certifications for mainstream countries.