

Energy Storage / Micro-Grid Coordination Controller

Smart Dispatch Core, Precision Balancer

100W | **ms**

Million-point capacity

Millisecond response

- Black start, seamless grid/island switching
- Frequency/voltage regulation, scheduled curve
- Anti-reverse power flow, overload prevention
- Dual-device hot standby, encrypted communication
- IEC61850 / IEC104 / MODBUS / DNP3.0
- Smart warning, SOC management, fault recovery



Certifications      

Product Introduction

Integrated Source-Grid-Load-Storage Coordination Control. It enables intelligent dispatch and coordination of distributed energy resources, energy storage systems. Supports seamless grid-connected/islanding switching, black start, grid-forming energy storage .etc

Application Scenarios

Energy Storage Power Station | New Energy + Storage Power Station | Grid-forming Energy Storage Station Industrial Park | PV+ Storage+Charging Station | Data Center | Tourist Resort Remote Rural Area | Island | Mine | Farm | Mountain Research Station

System Features



Three-layer, two-network architecture.

Isolates control for millisecond response, separates monitoring for data flow—uniting security with efficiency.



Fast response technology

Featuring triggered response within 2ms from access to command message dispatch.



SOC reserved capacity

Maintains sufficient capacity to handle faults and major fluctuations for inertia support and fast frequency regulation.



Multi-domain support.

Supports the integration of wind/solar/storage/diesel/hydrogen/charging piles and other multi-domain equipment.

System Specifications

Dimensions		483 x 177 x 291 mm (L x H x W)	
Electrical Specifications	Power Input	DC Model: 24VDC	AC Model: 100 - 240VAC, 50 / 60 Hz
	Rated Power Consumption	≤ 90 W	
	Operating Temperature	-25 - 60 °C	
Environmental Parameters	Operating Humidity	5% RH - 95% RH	
	Operating Altitude	≤ 2000m	
	Protection Rating	IP20	
Hardware Interfaces	Industrial Bus	RS485 x 2	
	Ethernet Port	RJ45 x 3 (10/100Mbps)	
	Fiber Optic Interface	SFP x 2 (10/100/1000Mbps)	
	DI/DO	16 / 16	
Software System	Operating System	Linux aarch64	
	Time Synchronization System	IRIG-B, SNTP	
	Communication Protocol	IEC61850 GOOSE, IEC104, Modbus RTU / TCP, DNP3.0	

Success Stories

Tanzania On-grid & Off-grid Project



PV: 2.9 MWp | ESS: 1.9 MW/4.09 MWh |
DG: 3.175 MW

Maldives Microgrid Project



PV: 220 kW | ESS: 125 kW/261 kWh |
DG: 120 kW | Charging Pile: 120 kW | V2G: 60 kW

Chongqing off-grid project



Hydrogen Generator: 260 kW |
ESS: 233 kW/233 kWh

Jiangsu on-grid energy storage project



ESS: 10 MW/20 MWh