

Grid Hybrid Power Solution

PowerCube 1000 G2-Plus: Grid hybrid solution



Introduction

G2-Plus solution is designed for the scenarios of power system modernization where the grid unstable. With intelligent alternate working mode of grid power and batteries, the system maximize the using of grid power to realize "Zero" D.G. running time or remove D.G., realize the energy consumption saving.

Features

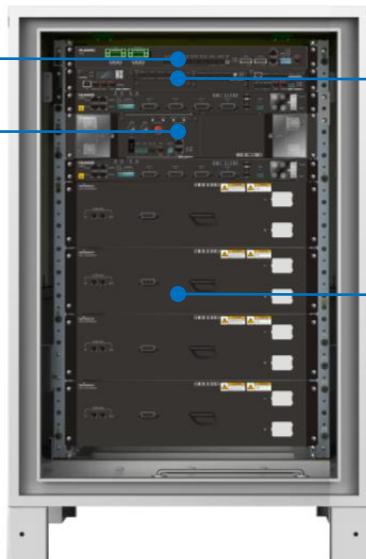
- Leading GridMax technology, advanced lithium battery control technology
- Support the access of solar power
- Remote energy management by NetEco (optional)

Scenarios

- Poor grid or unstable grid areas
- Grid outage: Less than 4 hours/time, totally 8 hours/day
- Modernization legacy sites, reuse existing power system (TP/APM30/Others)

Unified controller with advanced GridMax technology

Direct current transfer switch



Single analysis unit

Advanced energy storage unit

Configuration



Solution1 (G2-PlusE)



Solution1 (G2-Plus)

Specifications

Solution Type		Solution1 (G2-PlusE)	Solution2 (G2-Plus)
Condition	Typical Load	<2.0 kW	
	Energy Input	Grid	
	Grid Type	-40 to -60 Vdc	
	Diesel Generator	Optional (depends on the existing backup D.G.)	
Configuration	Cabinet	Reuse existing Cabinet (TP/APM30/Others)	ICC350-A6-F1
	Battery Type	ESU-A2400Wh/D or ESU-A2400Wh/N Max. 200Ah	
	Controller	ECC500	
	Installation Mode	Ground installation	
	Cabling Mode	According to the reused cabinet	From the bottom
System	Cooling for Battery	DC air conditioner / TEC	DC air conditioner
	Maintenance Mode	From the front	
	Protection Level	Depends on reused cabinet	IP55
	Noise Level	≤ 65 dBA @ 1.5 m, satisfy the GR487 standard	
	MTBF	> 100,000 hours	
	Charge & Discharge Current	Max. 0.3 C	
	Reused Rectifier Capacity	Max. 3 × 50 A	
	Power Distribution Demanded	More than 1 × 20 A BLVD	More than 1 × 30 A BLVD
	Dimensions (W×D×H)	19-inch rack × 13 U (1 × ESM-A9600Wh/N)	650 mm × 650 mm × 1000 mm
	Weight	128 kg (3 groups ESM-A2400Wh/D) 125 kg (1 groups ESM-A9600Wh/N)	208 kg (3 groups ESM-A2400Wh/D) 205 kg (1 groups ESM-A9600Wh/N)
Environment	Operating Temperature	0°C to +50°C (including solar radiation)	
	Storage Temperature	-40°C to +70°C	
	Operating Humidity	5% to 95% (no condensation)	
	Altitude	0 to 3000 m (1°C per 200 m temperature derating from 2000 – 3000 m)	

Remark:

- ESU: Energy Storage Unit
- MTBF: Mean Time Between Failures

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