

Grid Hybrid Power Solution

PowerCube 1000 G4 Mini: Grid hybrid solution



Introduction

G4 Mini solution is a standard fast charging system, which is suitable for the scenario of weekly multiple longtime outage grid in the poor and unstable grid area, it configures the battery of TCB-C/FCB-B (12V AGM) , and shows good performance in replacing the legacy dual D.G. power solution, intelligent alternate working mode of grid and batteries , maximize the using of grid power to realize "Zero" D.G. running time or remove D.G. .

Features

- Leading GridMax technology
- Full charging \leq 4hrs. 2-3 years lifespan
- Advanced lead-acid battery control technology
- Remote energy management by NetEco (optional)
- Smooth evolution and easy expansion

Scenarios

- Poor grid or unstable grid areas
- Weekly multiple longtime outage grid
- Modernization legacy sites
- New-building sites in unstable grid areas

Unified controller with advanced GridMax technology

Fast charging storage unit



Configuration



Solution1 (Outdoor)

Specifications

	Solution Type	Solution1 (Outdoor)
Condition	Typical Load	< 3.0 kW
	Energy Input	Grid
	Grid Type	200 – 240/346 – 415 Vac, Three-phase, 50/60 Hz, Max. 34 A
Configuration	Cabinet	ICC330-HD3-C5
	Battery Type	TCB-C/FCB-B, Max. 340 Ah
	Rectifiers	Max. 4 × R4850G2/R4850N2
	Controller	ECC500S
	Installation Mode	Ground installation
	Cabling Mode	From the bottom
	System	Cooling for Equipment
Cooling for Battery		Direct ventilation
Maintenance Mode		From the front
Protection Level		Equipment cabin: IP55 Battery cabin: IP34
Noise Level		≤ 65 dB(A) @ 1.5 m, satisfy the GR487 standard
Remaining Space		9 U (according to the actual configuration of equipments(including ATO pre-installation))
MTBF		> 100,000 hours
DC Distribution	DCDU Type	DCDU-200AN3
	Output Voltage	-48 Vdc
	Maximum Capacity	Max. 200 A
	Battery Branch	2 × 125 A MCB
	BLVD Branch	1 × 63 A MCB, 4 × 32 A MCB, 2 × 16 A MCB
	LLVD Branch	2 × 80 A MCB
	AC SPD	30/60 kA (8/20 μs)
	DC SPD	10/20 kA (8/20 μs)
Environment	Operating Temperature	-10°C to +40°C (-10°C to +45°C for TCB-C) + solar radiation
	Storage Temperature	-40°C to +70°C
	Operating Humidity	5% to 95% (no condensation)
	Altitude	0 to 4000 m (1°C per 200m temperature derating from 2000 to 4000 m)

Remark:

- DCDU: Direct Current Distribution Unit
- MTBF: Mean Time Between Failures
- SPD: Surge Protective Device

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