

Diesel Hybrid Power Solution



PowerCube 1000 D1-Standard (Co-site)

Introduction

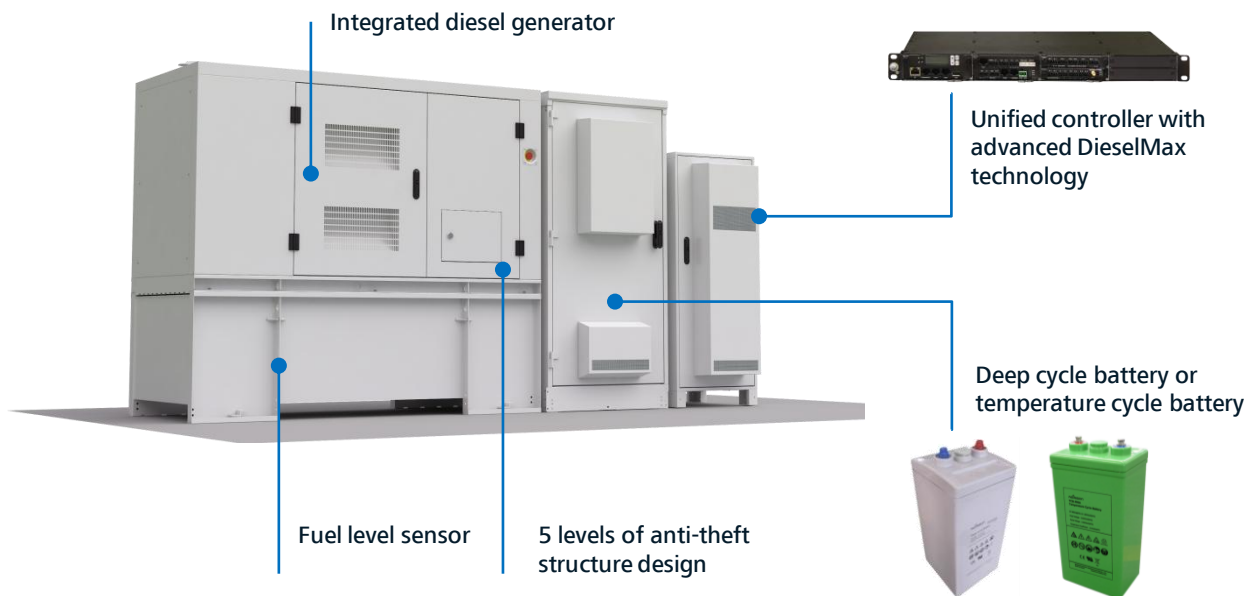
D1-Standard hybrid solution(Co-site) provides power for medium/large loads from 1.0 kW to 5.0 kW in off grid or unstable grid areas, the system supports 4 tenants sharing, and supports configuration of TCB-A/DCB-A for indoor and outdoor scenarios, the TCO is much lower than legacy dual D.G. solution, it also can smooth evolution to solar solution by adding PV panels.

Features

- Leading DieselMax technology
- Integrated design, 5-level anti-theft, structure
- Support the connection of grid & solar, smooth evolution
- Remote energy management by NetEco (optional)

Scenarios

- Off or unstable grid areas
- Medium or large load system
- Areas of lacking professional D.G. maintenance engineers



Configuration



Specifications

Type		D1-Standard (Outdoor)		
Condition	Typical Load	< 5.0 kW		
	Energy Input	Diesel		
	Diesel Generator	10/14 kW/16kW, 230V/400 Vac three-phase (800 L fuel tank)		
Configuration	Integrated Cabinet	ICC330-H1-C3 + ESC710-A1	ICC330-H1-C3 + ESC710-D2	
	Battery Type	TCB-A, Max. 2600 Ah	TCB-A, Max. 2600 Ah	
	Rectifiers	Max. 8 × R4850S1		
	Controller	ECC500S		
System	Installation Mode	Ground installation		
	Cabling Mode	From the bottom		
	Cooling for Equipment	HEX :150W/K		
	Cooling for Battery	DC Air-con PC1000D	Direct ventilation	
	Maintenance Mode	From the front and back		
	Protection Level	Equipment cabinet: IP55 Battery cabinet: IP55 Integrated D.G.: IP23	Equipment cabinet: IP55 Battery cabinet: IP34 Integrated D.G.: IP23	
	Noise Level	Cabinet: ≤ 65 dB(A) @ 1.5 m, satisfy the GR487 standard IDG: 75 dB(A) @ 1m, 75% load, satisfy the ISO8528 standard (80 dB(A) only for 16 kW IDG.)		
	Remaining Space ¹	21 U		
	MTBF	> 100,000 hours		
	AC Distribution	ATS Type	ATS-63A1/ATS-63A2/ATS-125C1	
		SPD	ATS-63A1: 20/40 kA (8/20 μs) ATS-63A2: 30/60 kA (8/20 μs)	
DC Distribution	DCDU Type	DCDU-400AS2		
	Output Voltage	-48 Vdc		
	Maximum Capacity	Max. 400 A		
	Battery Branch	2 × 250 A Fuse		
	Common Load	1 × 63 A MCB, 3 × 32 A MCB		
	BLVD (each tenant)	1 × 63 A MCB (support 4 tenants)		
	LLVD (each tenant)	2 × 80 A MCB, 1 × 63 A MCB (support 4 tenants)		
Environment	Operating Temperature ²	ICC330-H1-C3: -20°C to +45°C + solar radiation ESC710-A1: -10°C to +50°C + solar radiation ESC710-D2: -10 °C to +40 °C (-10 °C to +45 °C for TCB-A) + 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) IDG: 0 to 3000 m (output derating from 1000 to 3000 m)		

1. The remaining space for customer use should according to the actual configuration of equipments
2. ESC710-A1 can support -20 °C if configured the pre-heat device.

Remark:

- DCDU: Direct Current Distribution Unit
- ATS: AC Transfer Switch
- MTBF: Mean Time Between Failures
- SPD: Surge Protective Device
- IDG: Integrated Diesel Generator

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