FusionPower6000 3.0 Solution

Introduction

The PowerPod integrates the full-power link between the medium-voltage transformer and the load feeder， it provides a MW-level integrated power supply, distribution, and backup solution for large-scale data centers. The integrated design and high-density components are integrated to reduce the footprint of the power system. Prefabrication, reduce engineering, reduce the delivery complexity and shorten the deployment duration. The iPower intelligent feature implements visualized management and predictive maintenance of the entire chain, ensuring system security.

Application Scenarios

Indoor power supply and distribution system of the data center in a large traditional building.

FusionPower6000 3.0 for IT-2.5MVA(Indoor)

Features & Value

Simple

- Prefabricated in factory, TTM reduces 75%+
- Modular component, hot swappable, easy maintenance

Green

- Full-link convergence, Footprint reduces 40%+
- Power link efficiency is up to 95.6% (97.8% Smart Online Mode)

Smart·Safety

- Visualized system, easy-to-manage
- 150+ NTC, temperature monitoring in real time
- Key components life prediction, on-line switch setting
- AI Image recognition

Specification

Scenario		FusionPower6000 for IT only (Indoor)		FusionPower6000 for IT & Motive(Indoor)	
Capacity		2.5MVA	2.0MVA	2.5MVA	2.0MVA
Power supply and distribution	Transformer Power input	3Ph+PE, 10kV AC 50/60Hz			
	Transformer	2500kVA	2000kVA	2500kVA	2000kVA
	Transformer Power output	3Ph+N+PE, 380 V AC/400 V AC/415 V AC, 50 Hz/60 Hz			
	Main input switch /Bus tie switch	Default bus tie switch: Default when left-in and right-out layout; not configured when right-in and left-out layout			
		Main input: 4000A/3P Bus tie: 2500A/4P	Main input: 3200A/3P Bus tie: 2000A/4P	Main input: 4000A/3P Bus tie: 2500A/4P	Main input: 3200A/3P Bus tie: 2000A/4P
	SVG/APF	0 to 5 modules can be configured SVG 100kVar/module APF 100A/module			
	UPS for IT	UPS5000-H-600kVA*4PCS	UPS5000-H-500kVA *4PCS	UPS5000-H-600kVA *3PCS	UPS5000-H-500kVA *3PCS
	UPS for Motive	/	/	UPS5000-H-500kVA *1PCS	UPS5000-H-400kVA *1PCS
	Maintenance bypass switch	4000A/3P		3200A/3P+800A/3P	2500A/3P+800A/3P
	Utility power Feeder for Motive	2*400A/3P+160A/3P+ 100A/3P	400A/3P+250A/3P+ 160A/3P+100A/3P	800A/3P+160A/3P+ 100A/3P	800A/3P+160A/3P+ 100A/3P
	UPS Feeder for IT	The feeder cabinet is configured based on project requirements. The maximum capacity of a single feeder cabinet is as follows: 250A 3P * 18; Or 400A 3P * 7; Or 630A 3P * 7;			
Monitoring	Power monitoring system	ECC for centralized management			
Structure	External dimensions (H x W x D)(not includes the feeder cabinet)	2475×9600×1500	2475×9600×1500	2475×10200×1500	2475×10200×1500
	Installation mode	• Directly install on the ground • Assemble and install on the base onsite			
Environmental requirements	Operating temperature	0℃ ~ +40℃			
	Storage temperature	–40℃ ~ +70℃			
	Ambient humidity	≤ 95% RH (non-condensing)			
	Application environment	Class A environment			
	Altitude	0–4000 m. When the altitude is greater than 1000 m, the power is derated according to the industry standard.			