

EPOWER

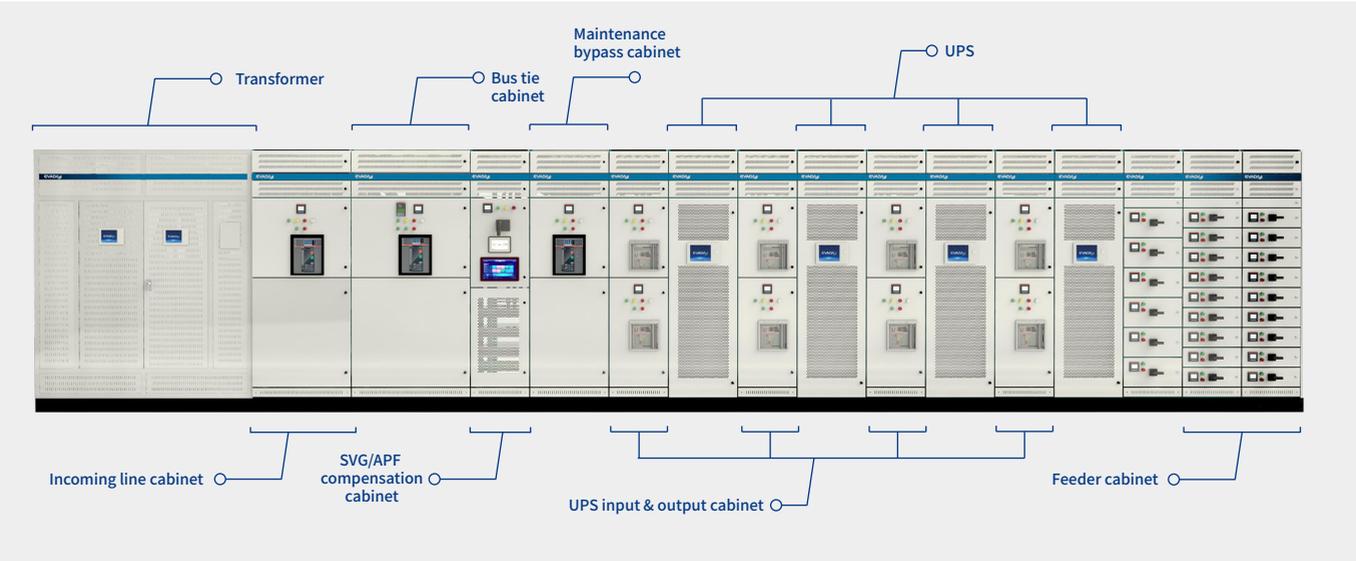
Prefabricated Power Module Solution

Product Introduction

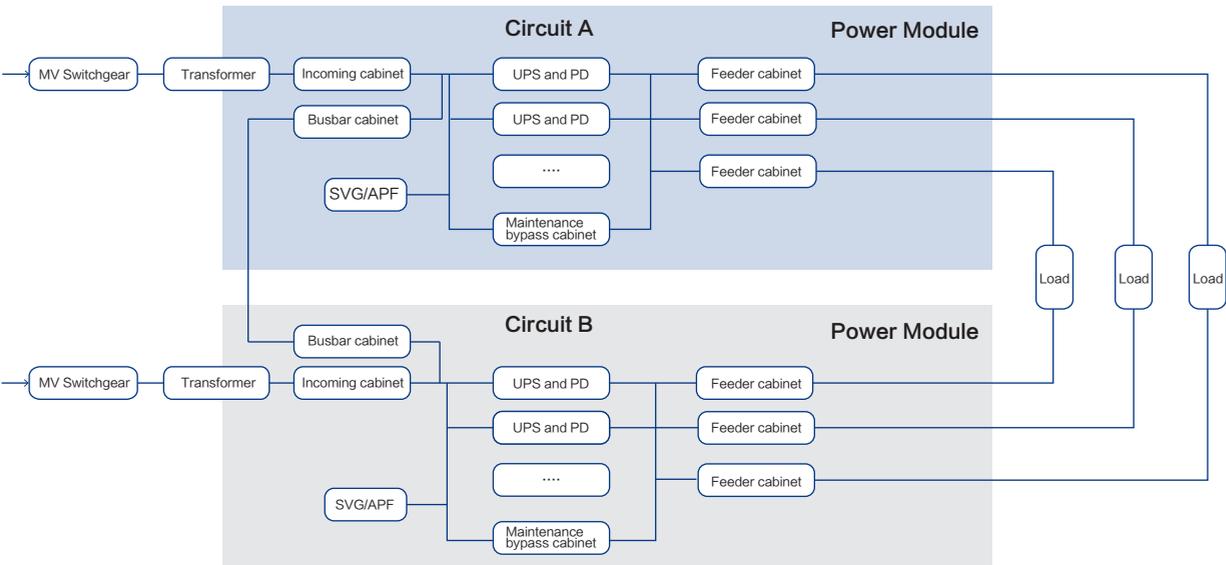
Based on more than 20 years of practices in the field of smart energy, as well as the design concepts of engineering productization, system productization, modularization and visualization, EVADA has launched the EPower Prefabricated Power Module Solution (including medium-voltage transformers, compensation cabinets, low-voltage distribution cabinets, UPS, and centralized intelligent monitoring).

This solution intelligently integrates the full power link from the medium-voltage transformer to the load feeder end. Through the full-chain integrated design, while ensuring the safety and reliability of the system, the power link is optimized, the power system footprint is reduced, and the operating energy consumption is reduced; through engineering product design, factory prefabrication, pre-adjustment, and overall integration, the delivery complexity is reduced and the deployment period is shortened; through modularization and centralized visualization design, unified centralized monitoring of the entire chain, predictive maintenance, and rapid decoupling and recovery of faults are achieved.

EPower provides surging power for data centers in industries such as operators, governments, electricity, finance, Internet, medical care, education, and smart manufacturing, ensuring the continuity of key businesses.



Product Principle



Medium and large power supply and distribution systems in data centers of operators, government, electric power, finance, Internet, medical care, education, intelligent manufacturing and other industries.

Product Features

Reliable

- Full chain integrated design, factory prefabrication and pre-commissioning, the overall performance is safe and reliable.

Efficient

- Link optimization, system efficiency > 95%, ECO energy-saving mode efficiency up to 97.8%.
- Component integration reduces system footprint by more than 30%.

Intelligent

- Full chain visibility, centralized monitoring, and unified management.
- Temperature measurement at key nodes, life prediction and preventive maintenance of key components.

Simple

- Prefabrication and de-engineering shortened the delivery period from 2 months to 2 weeks.
- UPS supports whole cabinet fault decoupling;
- Replacement and maintenance can be completed without powering off the system.
- UPS power module, bypass module and other core modules are hot swappable, and maintenance can be completed in 5 minutes.
- The system solution is flexible and has strong customization capabilities to meet the needs of different application scenarios.

UPS switch: internal or external;

UPS input: main and side inputs are from the same source or different sources ;

UPS input and output connection: cable connection or copper bus connection;

Specifications

System/Equipment	Specifications	EPower1000	EPower1250	EPower1600	EPower2000	EPower2500
System	System Capacity	1000kVA	1250kVA	1600kVA	2000kVA	2500kVA
	Dimensions	Height: 2300mm, Depth: 1200mm, Width: configured on demand			Height: 2500mm, Depth: 1200mm, Width: configured on demand	
	Monitoring system	15-inch touch screen, centralized monitoring and management				
	UPS input and output connection method	Cable connection, copper bus connection optional				
	Installation	Integrated skid-mounted type, segmented assembly type optional				
	Low voltage cabinet type	Fixed partition type, drawer type optional				
	Load Type	IT load, power load				
	Operating temperature(°C)	0°C~40°C				
	Working relative humidity (%)	≤95% (no condensation)				
Altitude (m)	≤1000m; derating according to industry standards when exceeding 1000m					
Transformer	Capacity	1000kVA	1250kVA	1600kVA	2000kVA	2500kVA
	Transformer input	3P3W + PE, 10kVAC, 50/60Hz				
	Transformer output	3P4W + PE, 380VAC/400VAC/415VAC, 50/60Hz				
SVG/APF hybrid compensation cabinet	Capacity Configuration	Configure on demand				
Incoming cabinet	Switching capacity	2000A/3P	2500A/3P	3200A/3P	4000A/3P	5000A/3P
Bus tie cabinet	Switching capacity	2000A/4P	2500A/4P	3200A/4P	4000A/4P	5000A/4P
UPS input & output cabinet	Switching capacity	2*1000A/3P	2*1250A/3P	2*1000A/3P	2*1000A/3P	2*1250A/3P
UPS	Model	Modular UPS				
	UPS components	2*500kVA	2*600kVA	3*500kVA	4*500kVA	4*600kVA
Maintenance bypass cabinet	Switching capacity	1600A/3P	2000A/3P	2500A/3P	3200A/3P	4000A/3P
Feeder cabinet	Switching capacity	Configured on demand, circuit breaker capacity optional: 630A, 400A, 250A, 160A, 100A				

*The above specifications are for reference only and can be customized according to specific projects.