



Auxiliary Power Supply System



Ensuring High Levels of Safety and Reliability

1.Compact and Lightweight

Size/Weight reduced 34% compared to conventional auxiliary power supply (APS) system

- Dimensions: 1,900×900×500mm(L×W×D)
- Weight: Approx. 640kg
- More compact high-frequency transformer
- Function module adopted

2. High Efficiency

Advanced power device achieving up to 95%* efficiency

- High-efficiency system contributing to energy savings and low operating costs
- * Maximum efficiency using AC output only; may vary depending on system configuration and service conditions.

3.Excellent Output Voltage Control

Ensures stable output voltage in response to load changes

High-speed instantaneous voltage waveform control realizing stable operation even after sudden load changes or short circuits



Specifications for APS (including low-voltage power supply)

50 to 100kVA model

Normal input voltage: Dimensions (mm): L×W×D	750VDC 1,900×900×500 (when roof-mounted)	Three-phase AC output: Output voltage Output power	208 to 400VAC $\pm 5\%$ (selectable) 90kVA (rated)
Weight: Cooling system:	Approx. 640kg Cooling fan	DC output: Output voltage Output power	24 to DC110V ±1% (selectable) 10kW (rated)
Mounting:	Roof-mounted or Under floor	Degree of protection for electrical equipment:	IP65
Applicable standards:	IEC60077-1 IEC61287-1 EN50121-3-2	Options: (not included in standard specifications)	 Single-phase AC output Power supply to start flat battery AC output parallel synchronous function Shore power supply function

High-redundancy Design (Option)

Prevents interruption of power supply to load and enables simple back-up operation

 Compatible with AC output parallel synchronous operation
 → No interruption of power supply to loads even if one APS unit stops due to a loss of contact between the pantograph and contact wire





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