



Auxiliary Power Supply System



50VA model

Ensuring High Levels of Safety and Reliability

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

High Efficiency

Advanced power device achieving up to 95%* efficiency

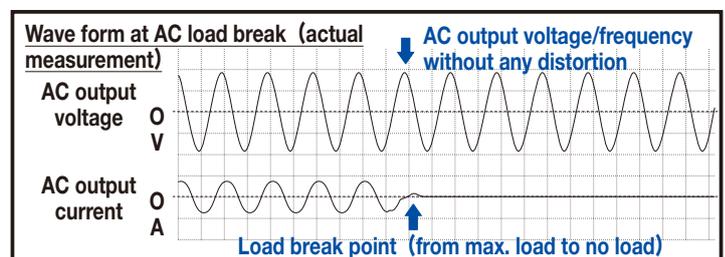
- High-efficiency system contributing to energy savings and low operating costs

※ Maximum efficiency using AC output only; may vary depending on system configuration and service conditions.

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)

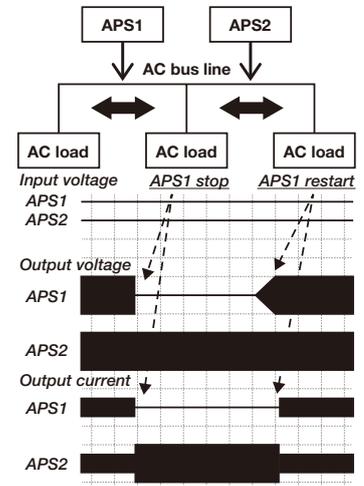
50VA model

Normal input voltage:	750VDC	Three-phase AC output: Output voltage: 208 to 400VAC $\pm 5\%$ (selectable) Output power: 50kVA (rated)
Dimensions (mm): LxWxD	1,900x900x500 (when roof-mounted)	
Weight:	Approx. 640kg	
Cooling system:	Forced air cooling	
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

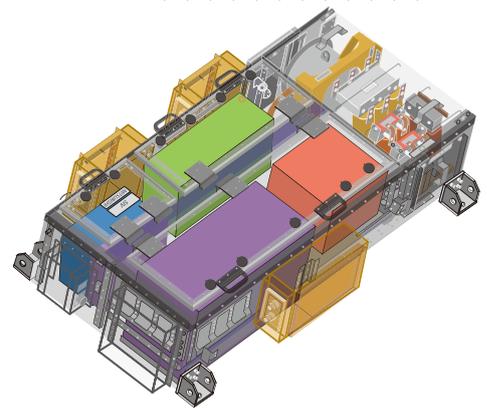
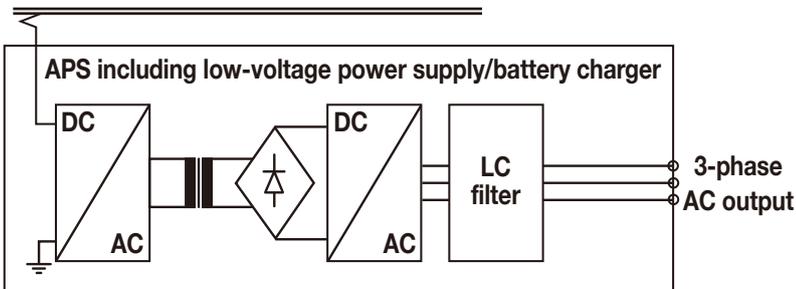
High-redundancy Design (Option)

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



Block diagram



MITSUBISHI ELECTRIC CORPORATION

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