ESTS SERIES

STATIC TRANSFER SWITCH

ESTS200-M / ESTS500-M

Technical specifications · 200 kVA and 500 kVA models



SIDE VIEW

Cabinet exterior



FRONT VIEW

Closed cabinet



INTERIOR VIEW

Open enclosure and components

TECHNICAL SPECIFICATIONS	ESTS200-M	ESTS500-M
POWER PARAMETERS		
Grid-Side Port Power	200 kVA	500 kVA
Rated Grid-Side Port Current	289 A	722 A
Load-Side Port Power	200 kVA	500 kVA
Max. Power of Critical Load	100 kVA	250 kVA
Rated Voltage	400 VAC	400 VAC
Grid Voltage Range	400 VAC ±15%	400 VAC ±15%
Rated Frequency	50/60 Hz	50/60 Hz
Grid/Off-Grid Switching Time	<20 ms	<20 ms
Efficiency	>99.5%	>99.5%
Auxiliary Power	60 W	100 W
COMMUNICATIONS		
Communication Port	RS485	RS485
Communication Protocol	Modbus RTU	Modbus RTU
SYSTEM PARAMETERS		
Product Dimensions (W × H × D)	670 × 655 × 1500 mm	670 × 655 × 1500 mm
Weight	ca. 180 kg	ca. 200 kg
Operating Temperature	−25°C to 55°C (derating above 45°C)	−25°C to 55°C (derating above 45°C)
Storage Temperature	−45°C to 70°C	−45°C to 70°C
Relative Humidity	0% RH to 95% RH, non-condensing	0% RH to 95% RH, non-condensing
Cooling Method	Intelligent forced-air cooling	Intelligent forced-air cooling
Protection Rating	IP20	IP20
Wiring Method	Three-phase, three-wire	Three-phase, three-wire
Altitude	4000 m (derate above 2000 m; reduce rated capacity by 1% for each additional 100 m)	4000 m (derate above 2000 m; reduce rated capacity by 1% for each additional 100 m)
Power Terminals	Grid side: RST; Load side: UVW	Grid side: RST; Load side: UVW

KEY FEATURES

- **Smart and Convenient**

  Automatic transitions between grid-connected and off-grid modes.

- **Fast Response**

  Rapid separation of the utility grid and microgrid.

- **Safe and Reliable**

  High-reliability backup design.

Operating principle: Thyristor-based switching transfers power rapidly between the utility grid and microgrid.

Power constraint: Combined critical-load and PCS-side power must not exceed the product's maximum rated power.