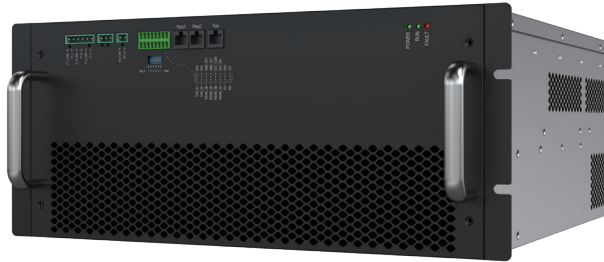


ESTS200/250/500/1000-M Static Transfer Switch



The On/Off-grid switching device in STS series can realize the fast switching On/Off-grid status within 20ms. STS is closed under normal operating conditions while immediately disconnected in the event of a utility interruption. When STS is disconnected, the energy storage system will switch to Off-grid operating mode, where the battery discharges to provide power to the critical loads and ensures that the power from the storage system is not reversed to the grid.



Smart Collaboration

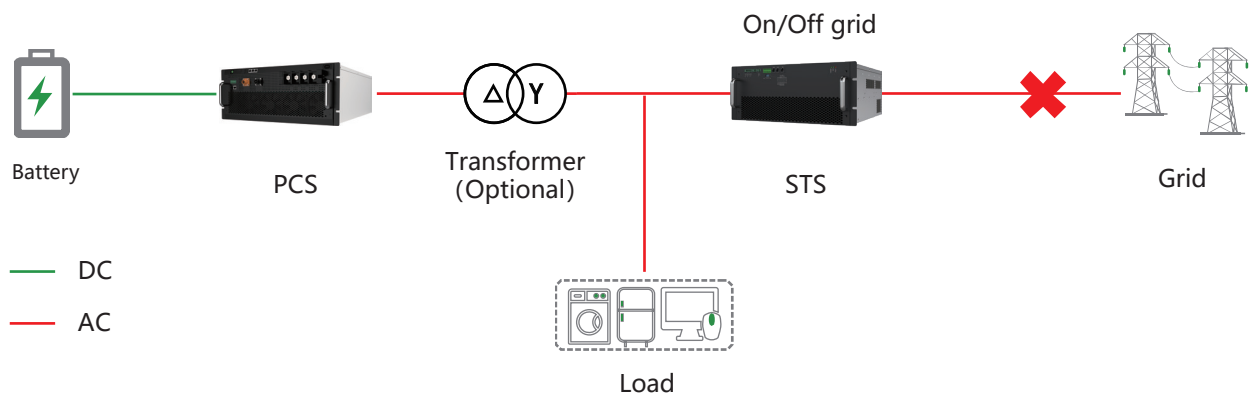
- Seamless on/off grid switching
- Front side maintenance for easy operation and maintenance



Safe & Reliable

- Highly-reliable backup design to ensure the critical loads without interruption
- Intelligent operation with CAN, RS485 and other communication methods

Typical Application

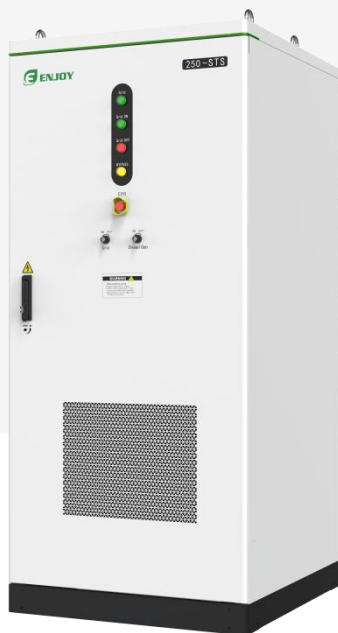


Technical Parameters

Spec.	ESTS200-M	ESTS250-M	ESTS500-M	ESTS1000-M
Power Parameters				
Grid port power	200kVA	250kVA	500kVA	1000kVA
Rated grid port current	289A	361A	722A	1443A
Load side port power	200kVA	250kW	500kW	1000kVA
Rated voltage	400V			
Grid side voltage range	400V±15%			
Rated frequency	50/60Hz			
On/off-grid switching time	< 20ms			
Max. efficiency	> 99.5%			
Communication				
Communication method	RS485			RS485/Ethernet
General Parameters				
Dimension (W × H × D)	440×232×425mm	440×130×520mm(*)	440×232×500mm 440×200×500mm(*)	520×280×650mm (Undetermined) (*)
Weight	22.5kg	22kg(*)	40.5kg 39.6kg(*)	80kg (Undetermined)(*)
Altitude	4000m (Derate above 2000m, 1% frequency derating per 100m ascent)			
Operating temperature	-25℃ ~ 55℃ (Derate above 45℃)			-30℃~55℃ (Derate above 45℃)
Storage temperature	-45℃ ~ 70℃			
Operating humidity	0%RH ~ 95%RH, non-condensing			
Cooling method	Intelligent air cooling			
IP rating	IP20			
Wiring method	3P+PE			3P+PE+(N)
Power port	RST on grid side、UVW on load side			
Human-machine interface	None			

*represents the dimension/weight of the version with RJ45 interface for parallel operation.

ESTS250-S Static Transfer Switch Cabinet



Key Features

Automatic transfer

- Automatic grid switching and synchronization
- Compatible with VSG grid-forming switching and seamless conversion with all types of diesel generators.

Convenient power distribution

- Built-in UPS to ensure auxiliary power supply
- Optional PV and diesel generator connection ports for flexible configuration.

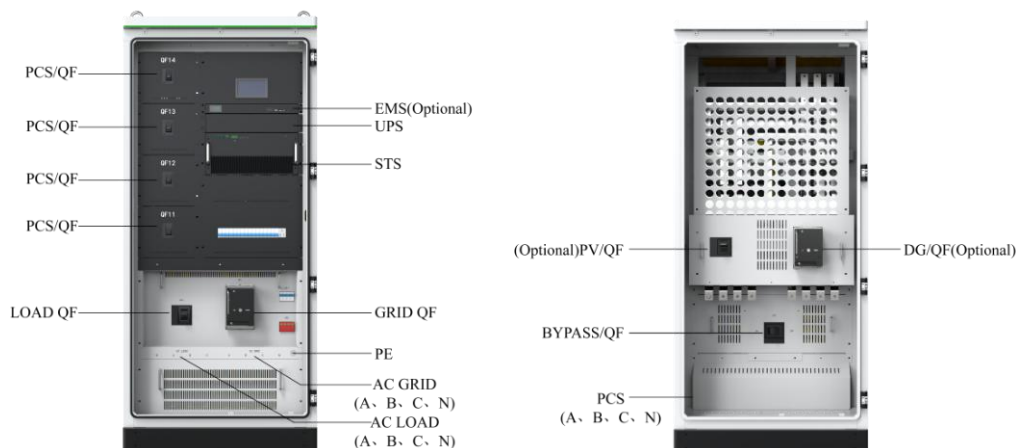
Fast switching

- Active switching cycle: 0 ms
- Passive switching cycle: less than 20 ms

Built-in optional EMS system

- Intelligent collaborative scheduling for optimal power distribution in Solar-Storage-DG systems.
- Access of various BMS systems

Internal Structure

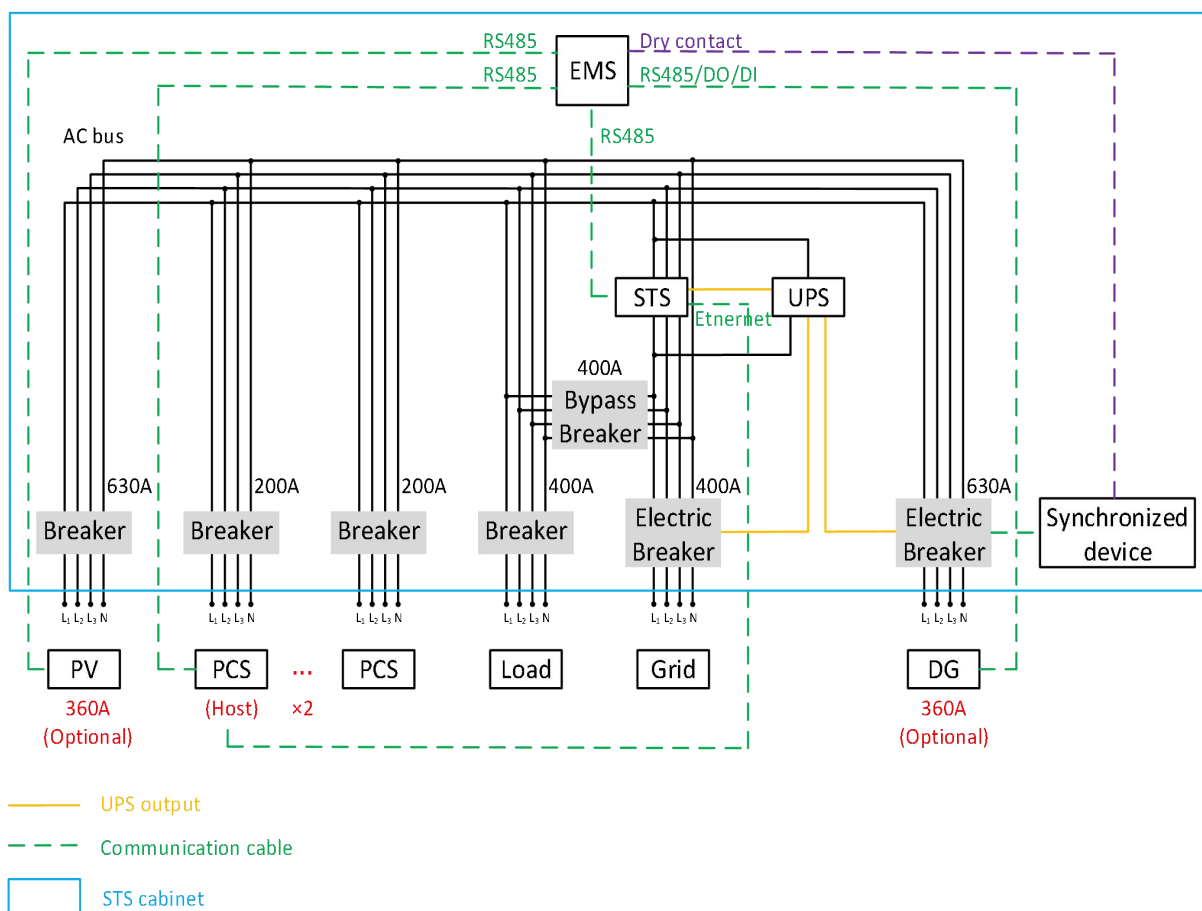


Technical Parameters

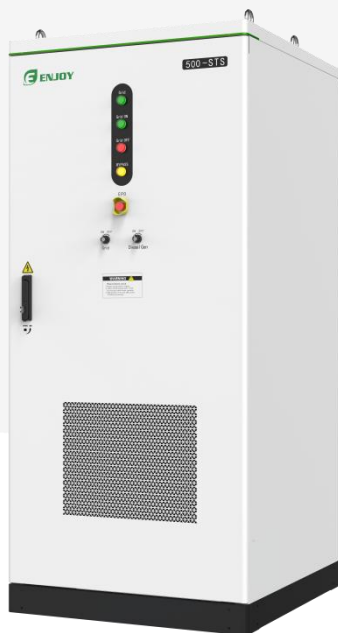
Specification	ESTS250-S
Grid-side parameters	
Grid voltage	400V, 3W+N+PE (±15%)
Rated AC power	250kW
Rated AC current	360A
Rated grid frequency	50/60 Hz±2.5 Hz
Required THDU	<10%
Parameters of load interface	
Grid voltage	400V, 3W+N+PE
Rated AC power	250kW
Rated AC current	360A
Rated grid frequency	50/60 Hz±2.5 Hz
Parameters of PCS interface	
Grid voltage	400V, 3W+N+PE
Rated AC power	250kW (125kW*2ports)
Rated AC current	360A
Rated grid frequency	50/60 Hz±2.5 Hz
Required THDU	<10%
Parameters of Optional Diesel Generator and PV Connection Ports	
Rated AC power	250kW (diesel input) / 250kW (PV input)
Rated AC current	360A (diesel input) / 360A (PV input)
System parameters	
Bypass function	Standard configuration
Switching cycle	<20 ms
Overload capacity	1.1x @ 1min
UPS power supply	1kVA/220VAC
Isolation mode	Non-isolated
Dimensions (W * H * D)	900*2000*1000mm
Weight	500 kg
Communication interface	RS485
Operating temperature	-25°C ~ 55°C
Altitude	4,000 m (> 2,000 m derated use)
Heat dissipation method	Intelligent air-cooling
Design life	20
IP grade	IP54

* Product parameters and specifications are updated irregularly without prior notice.

System Topology Reference Diagram



ESTS500-S STS AC Distribution Cabinet



Key Features

Automatic transfer

- Automatic grid switching and synchronization
- Compatible with VSG grid-forming switching and seamless conversion with all types of diesel generators.

Convenient power distribution

- Built-in UPS to ensure auxiliary power supply
- Optional PV and diesel generator connection ports for flexible configuration.

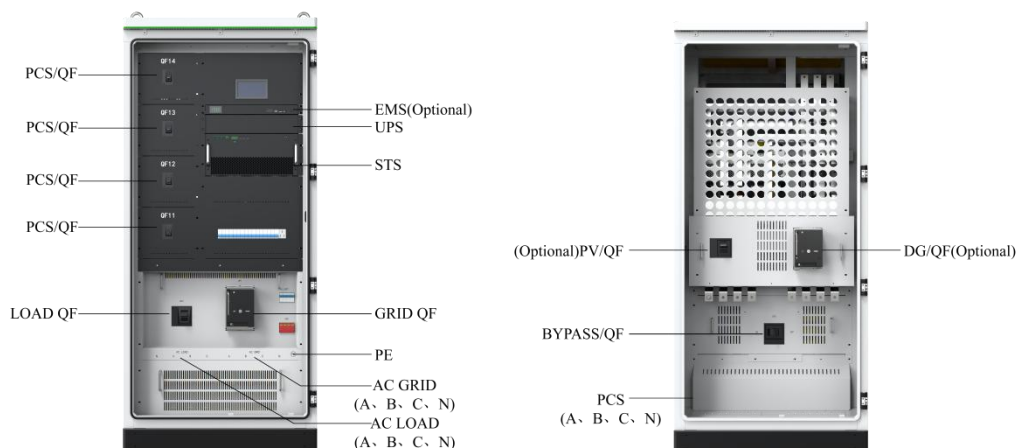
Fast switching

- Active switching cycle: 0 ms
- Passive switching cycle: less than 20 ms

Built-in optional EMS system

- Intelligent collaborative scheduling for optimal power distribution in Solar-Storage-DG systems.
- Access of various BMS systems

Internal Structure



Technical Parameters

Specification	ESTS500-S
Grid-side parameters	
Grid voltage	400V, 3W+N+PE (±15%)
Rated AC power	500kW
Rated AC current	720A
Rated grid frequency	50/60 Hz±2.5 Hz
Required THDU	<10%
Parameters of load interface	
Grid voltage	400V, 3W+N+PE
Rated AC power	500kW
Rated AC current	720A
Rated grid frequency	50/60 Hz±2.5 Hz
Parameters of PCS interface	
Grid voltage	400V, 3W+N+PE
Rated AC power	500kW (125kW*4ports)
Rated AC current	720A
Rated grid frequency	50/60 Hz±2.5 Hz
Required THDU	<10%
Parameters of Optional Diesel Generator and PV Connection Ports	
Rated AC power	500kW (diesel input) / 500kW (PV input)
Rated AC current	720A (diesel input) / 720A (PV input)
System parameters	
Bypass function	Standard configuration
Switching cycle	<20 ms
Overload capacity	1.1x @ 1min
UPS power supply	1kVA/220VAC
Isolation mode	Non-isolated
Dimensions (W * H * D)	900*2000*1000mm
Weight	500 kg
Communication interface	RS485
Operating temperature	-25°C ~ 55°C
Altitude	4,000 m (> 2,000 m derated use)
Heat dissipation method	Intelligent air-cooling
Design life	20
IP grade	IP54

* Product parameters and specifications are updated irregularly without prior notice.

System Topology Reference Diagram

