GOODWE

STS Series

The Static Transfer Switch (STS) Box is a cutting-edge switching solution designed for use in commercial and industrial energy storage systems. This system enables precise control of inverters, allowing seamless transitions between grid-tied and off-grid modes. In the event of a grid outage, the inverter seamlessly switches to off-grid mode, providing power to critical loads through solar panels or batteries. When grid power is restored, the inverter smoothly transitions back to grid-tied operation. The STS is versatile, supporting connections with generators and accommodating large loads such as heat pumps and motors. During grid-tied operation, the STS supports a maximum load capacity of 138kW (200A) for the backup interface. This robust solution ensures continuous and reliable power supply, offering flexibility and efficiency in energy management.



- Paired with ET 50kW for UPS-level and off-grid switching
- Supports the connection and control of large loads
- Supports control of diesel generator integration
- IP65 ingress protection for outdoor installations

STS Series

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Technical Data	STS200-80-10
Electrical Data	
Nominal Output Voltage (V)	380 / 400, 3L / N / PE
Output Voltage Range (V)	176 ~ 276
Nominal AC Frequency (Hz)	50 / 60
AC Frequency Range (Hz)	45 ~ 65
Inverter Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA)*1	50000
Nominal Current (A)*5	72.5
Max. Current (A)*2*6	75.8
Grid Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA)*3	50000
Nominal Current (A)*5	72.5
Max. Current (A)*4*6	75.8
Back-up Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power without Grid (VA)	55000
Max. Apparent Power with Grid (VA)	138000
Nominal Current (A)*5	72.5
Max. Current (A)*4*7	83.3
Generator / PV inverter Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA)	55000
Nominal Current (A)*5	72.5
Max. Current (A)*7	83.3
Other Electrical Data	
Nominal Current of AC Side Relay (A)	200
Nominal Current of Generator Side Relay (A)	90
Switch Time (ms)	<10
General Data	
Operating Temperature Range (°C)	-35 ~ +60
Max. Operating Altitude (m)	4000
Cooling Method	Natural Convection
Communication with Inverter	RS485
Weight (kg)	16.5
Dimension (W × H × D mm)	510 × 425 × 156
Mounting Method	Wall Mounted
Topology	Non-isolated
Ingress Protection Rating	IP65
Certification	
Safety Regulation	IEC62109-1 / -2
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

*1: When the inverter is operating in the off-gird state, Max. Apparent Power of Inverter Side can be reached 55kW.
*2: When the inverter is operating in the off-gird state, Max. Current of Inverter Side can be reached 83.3A.
*3: Max. Input Power at grid port (purchased power) 138kW.
*4: Max purchases current of gid side and back up side can be reached at 200A.
*5: When Nominal Output Voltage is 380V, the Nominal Current is 75.8A.
*6: When Nominal Output Voltage is 400V, the Max. Current is 72.5A.
*7: When Nominal Output Voltage is 400V, the Max. Current is 79.7A.
*: Please visit GoodWe website for the latest certificates.

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