

Reliable back-up power for energy storage systems

The Static Transfer Switch (STS) enables precise control of inverters, allowing seamless transitions between grid-connected and off-grid modes. In the event of a grid outage, the inverter 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-connected operation. The STS is versatile, supporting connections with generators and accommodating large loads such as heat pumps and high-power motors. This robust solution ensures continuous and reliable power supply, offering flexibility and efficiency in energy management.



Compatible with hybrid inverter ET50



Facilitates back-up power



Supports integration with generators



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)	72.5	
Max. Current (A) ^{*2}	75.8	
Grid Side Data		
Nominal Apparent Power (VA)	50000	
Max. Apparent Power (VA) ^{*3}	50000	
Nominal Current (A)	72.5	
Max. Current (A) ^{*4}	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)	72.5	
Max. Current (A) ^{*4}	83.3	
Generator / PV inverter Side Data		
Nominal Apparent Power (VA)	50000	
Max. Apparent Power (VA)	55000	
Nominal Current (A)	72.5	
Max. Current (A)	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	Nature Convection	
Communication with Inverter	RS485	
Weight (kg)	16.5	
Dimension (W × H × D mm)	510 × 425 × 156	
Topology	Non-isolated	
Mounting Method	Wall Mounted	
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-grid state, Max. Apparent Power of Inverter Side can be reached 55kW.

*2: When the inverter is operating in the off-grid 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 grid side and back up side can be reached at 200A.

*: Please visit GoodWe website for the latest certificates.