

## 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		STS90-80-10
<b>Electrical Data</b>		
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	
<b>Inverter Side Data</b>		
Nominal Apparent Power(VA)	50000	
Max. Apparent Power (VA) <sup>*1</sup>	50000	
Nominal Current (A)	72.5	
Max. Current (A) <sup>*2</sup>	75.8	
<b>Grid Side Data</b>		
Nominal Apparent Power (VA)	50000	
Max. Apparent Power (VA)	50000	
Nominal Current (A)	72.5	
Max. Current (A)	75.8	
<b>Back-up Side Data</b>		
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) <sup>*3</sup>	83.3	
<b>Generator / PV inverter Side Data</b>		
Nominal Apparent Power (VA)	50000	
Max. Apparent Power (VA)	55000	
Nominal Current (A)	72.5	
Max. Current (A)	83.3	
<b>Other Electrical Data</b>		
Nominal Current of AC Side Relay (A)	200	
Nominal Current of Generator Side Relay (A)	90	
Switch Time (ms)	<10	
<b>General Data</b>		
Operating Temperature Range (°C)	-35 ~ +60	
Max. Operating Altitude (m)	4000	
Cooling Method	Smart Fan Cooling	
Communication with Inverter	RS485	
Weight (kg)	17.5	
Dimension (W × H × D mm)	510 × 425 × 156	
Mounting Method	Wall Mounted	
Ingress Protection Rating	IP65	
<b>Certification</b>		
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: When the grid is on, the Max. Current of Backup side can be reached 200A.

\*: Please visit GoodWe website for the latest certificates.