

## STS Series

### Static Transfer Switch | GW500K-STS-PCS-G10

The GoodWe Static Transfer Switch (STS) module is a high-performance transfer switch designed for seamless grid and off-grid operation in large commercial and industrial energy storage systems. Paired with the GoodWe ESA 125kW/261kWh energy storage cabinet, it delivers UPS-level switching performance with fast, reliable protection for critical loads.



Enables UPS-level on/off-grid switching under 20ms



Paired with ESA 125kW/261kWh and on-grid inverters for easy microgrid setup



Built-in bypass switch for enhanced system reliability



Supports large-load connection for C&I applications



Allows to seamlessly integrate up to 1MW PV connection



Diesel generator control for enhanced system flexibility

Technical Data		GW500K-ST5-PCS-G10
<b>Grid Side</b>		
Nominal Voltage (V)	220 / 380, 230 / 400, 3L / N / PE	
Voltage Range (V)	340 ~ 440	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Rated Current (A)	957.2	
Max. Current (A)	1000 @ 10s	
Rated Power (kW)	500	
Max. Apparent Power (kVA)	630	
<b>Back-up Side</b>		
Nominal Voltage (V)	220 / 380, 230 / 400, 3L / N / PE	
Voltage Range (V)	340 ~ 440	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Rated Current (A)	835.6	
Max. Current (A)	1000 @ 10s	
Rated Power (kW)	500	
Max. Apparent Power (kVA)	550	
<b>ESS Side</b>		
Nominal Voltage (V)	220 / 380, 230 / 400, 3L / N / PE	
Voltage Range (V)	340 ~ 440	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Rated Current (A)	835.6	
Max. Current (A)	1000 @ 10s	
Rated Power (kW)	500	
Max. Apparent Power (kVA)	550	
<b>Smart-port Side</b>		
Nominal Voltage (V)	220 / 380, 230 / 400, 3L / N / PE	
Voltage Range (V)	340 ~ 440	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Rated Current (A)	835.6	
Max. Current (A)	1000 @ 10s	
Rated Power (kW)	500	
Max. Apparent Power (kVA)	550	
<b>Inverter Side</b>		
Nominal Voltage (V)	220 / 380, 230 / 400, 3L / N / PE	
Voltage Range (V)	340 ~ 440	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5	
Rated Current (A)	1519.4	
Max. Current (A)	1800 @ 10s	
Rated Power (kW)	1000 (Centralized Access 500 + Independent Access 500)	
Max. Apparent Power (kVA)	1000 (Centralized Access 500 + Independent Access 500)	
<b>General Data</b>		
On / Off Grid Transfer Time (ms)	<20	
Operating Temperature Range (°C)	-25 ~ +55	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude (m)	4000	
Cooling Method	Smart Fan Cooling	
Communication With EMS	LAN + CAN	
Weight (kg)	<750.0	
Dimension (W x H x D mm)	1100 x 2010 x 1000	
Mounting Method	Grounded	
Noise Emission (dB)	<60	
Ingress Protection Rating	IP54	
Overvoltage Category	III	
Protective Class	I	
<b>Certification</b>		
Safety Regulation	IEC61439-1, IEC61439-2, EN61439-1, EN61439-2, IEC60730	

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