

STS Series 125kW

The Static Transfer Switch (STS) Series 125kW 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-connected operation. The STS is versatile, supporting connections with generators and accommodating large loads such as heat pumps and motors. This robust solution ensures continuous and reliable power supply, offering flexibility and efficiency in energy management.



Paired with ET 100kW for UPS-level and off-grid switching



Wall-mounted design for easy installation



Supports the connection and control of large loads



Supports control of diesel generator integration

Technical Data		GW125K-STS-G10
Grid Side		
Nominal Voltage (V)	220 / 380 / 400 / 415, 3L / N / PE	
Voltage Range (V)	114 ~ 280 (according to local standard)	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	
Max. Current (A)	210	
Rated Power (kW)	125.0 (75 @ 220V)	
Max. Apparent Power (kVA)	137.5 (75 @ 220V)	
Rated conditional Short-circuit current (kA)	3	
Back-up Side		
Nominal Voltage (V)	220 / 380 / 400 / 415, 3L / N / PE	
Voltage Range (V)	114 ~ 280 (according to local standard)	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	
Max. Current (A)	210	
Rated Power (kW)	125.0 (75 @ 220V)	
Max. Apparent Power (kVA)	137.5 (75 @ 220V)	
Rated conditional Short-circuit current (kA)	3	
Smart Port Side		
Nominal Voltage (V)	220 / 380 / 400 / 415, 3L / N / PE	
Voltage Range (V)	114 ~ 280 (according to local standard)	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	45~55 / 55~65	
Max. Current (A)	210	
Rated Power (kW)	125.0 (75 @ 220V)	
Max. Apparent Power (kVA)	137.5 (75 @ 220V)	
Rated conditional Short-circuit current (kA)	3	
Inverter Side		
Nominal Voltage (V)	220 / 380 / 400 / 415, 3L / N / PE	
Voltage Range (V)	114 ~ 280 (according to local standard)	
Nominal Frequency (Hz)	50 / 60	
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	
Max. Current (A)	210	
Rated Power (kW)	125.0 (75 @ 220V)	
Max. Apparent Power (kVA)	137.5 (75 @ 220V)	
Rated conditional Short-circuit current (kA)	3	
General Data		
On / Off Grid Transfer Time (ms)	<10	
Operating Temperature Range (°C)	-35 ~ +60	
Installation Type	Indoor / Outdoor	
Storage Temperature (°C)	-40 ~ +70	
Relative Humidity	0 ~ 100%	
Pollution Degree	III	
Type of Electrical Supply System	TN-S, TN-C, TN-C-S, TT	
Stationary or Movable	Stationary	
Type Of Short-circuit Protective Device	Icc	
Max. Operating Altitude (m)	4000	
Cooling Method	Intelligent air cooling	
Communication	RS485	
Weight (kg)	21	
Dimension (W x H x D mm)	680 x 620 x 165	
Mounting Method	Wall Mounted	
Noise Emission (dB)	45	
Ingress Protection Rating	IP54	

*: Please visit GoodWe website for the latest certificates.