

GOODWE

STS Series 375/750kW

Static Transfer Switch

The Static Transfer Switch (STS) is a cabinet-based, high-performance switching solution designed for commercial and industrial energy storage systems. Fully compatible with GoodWe ET Series 80kW, ET Series 100kW and ETR Series 80-125kW, it enables UPS-level on- and off-grid switching with ultra-fast response time. The STS provides precise control of hybrid inverters, enabling seamless transitions between grid-tied and off-grid modes so that, in the event of a grid outage, critical loads are continuously powered by solar energy or batteries and smoothly reconnected to the grid once power is restored. Featuring a smart configurable port, the STS integrates PV, energy storage and diesel generators into one coordinated system, delivering a flexible, resilient and cost-optimized microgrid solution. As a scalable cabinet solution, it supports parallel inverter systems and large inductive loads such as motors and heat pumps, ensuring reliable operation across diverse C&I applications.



UPS-level on/off-grid switching with ultra-fast response



Flexible microgrid integration with PV, storage and diesel generators



375kW/750kW scalable design for optimized system sizing



Outdoor-ready design with stable operation across wide temperature conditions

Technical Data	GW375K-STS-A-G10	GW750K-STS-A-G10
Grid Side		
Nominal Voltage (V)	127 / 220, 220 / 380, 230 / 400, 240 / 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	
Rated. Current (A)	543.5	1087
Max. Current (A)	543.5	1087
Rated Power (kW) ^{*1}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*2}	375@400V (200@220V)	750@400V (400@220V)
Back-up Side		
Nominal Voltage (V)	127 / 220, 220 / 380, 230 / 400, 240 / 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	
Rated. Current (A)	543.5	1087
Max. Current (A)	543.5	1087
Rated Power (kW) ^{*1}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*2}	375@400V (200@220V)	750@400V (400@220V)
Smart Port Side		
Nominal Voltage (V)	127 / 220, 220 / 380, 230 / 400, 240 / 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	
Rated. Current (A)	543.5	1087
Max. Current (A)	543.5	1087
Rated Power (kW) ^{*1}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*2}	375@400V (200@220V)	750@400V (400@220V)
Inverter Side		
Nominal Voltage (V)	127 / 220, 220 / 380, 230 / 400, 240 / 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	
Rated. Current (A)	210 × 3	210 × 6
Max. Current (A)	210 × 3	210 × 6
Rated Power (kW)	125 (75@220V) × 3	125 (75@220V) × 6
Max. Apparent Power (kVA)	125 (75@220V) × 3	125 (75@220V) × 6
General Data		
On / Off Grid Transfer Time (ms)	<20	
Operating Temperature Range (°C)	-35 ~ +60	
Installation Type	Indoor / Outdoor	
Relative Humidity	0 ~ 100%	
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)	395	500
Dimension (W × H × D mm)	1000 × 1900 × 870	
Mounting Method	Floor Mounted	
Noise Emission (dB)	<60	
Ingress Protection Rating	IP54	
Overvoltage Category	III	
Protective Class	I	

*1: When the phase voltage is 220V, the Rated Power of GW375K-STS-A-G10 is 358kW and the Rated Power of GW750K-STS-A-G10 is 717kW.

*2: When the phase voltage is 220V, the Max. Apparent Power of GW375K-STS-A-G10 is 358kW and the Max. Apparent Power of GW750K-STS-A-G10 is 717kW.

*: Please visit GoodWe website for the latest certificates.