

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 75-100kW, 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.



STS 375/750kW paired with ET Series 75-100kW enables UPS-level On/off-grid switching with ultra-fast response



Scalable design available in 375kW and 750kW configurations for optimal system sizing and cost efficiency



Outdoor-ready for stable operation across wide temperature conditions



Supports diesel generator integration with remote contactor control for seamless microgrid connection



Smart port enables coordinated integration of PV, storage and diesel generators, with seamless genset integration and remote start-stop control for flexible microgrid applications

Technical Data	GW375K-STS-A-G10	GW750K-STS-A-G10
Grid Side		
Nominal Voltage (V) ^{*1}	127 / 220, 220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Voltage Range (V) ^{*2}	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) ^{*3}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*4}	375@400V (200@220V)	750@400V (400@220V)
Back-up Side		
Nominal Voltage (V) ^{*1}	127 / 220, 220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Voltage Range (V) ^{*2}	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) ^{*3}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*4}	375@400V (200@220V)	750@400V (400@220V)
Smart Port Side		
Nominal Voltage (V) ^{*1}	127 / 220, 220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Voltage Range (V) ^{*2}	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) ^{*3}	375@400V (200@220V)	750@400V (400@220V)
Max. Apparent Power (kVA) ^{*4}	375@400V (200@220V)	750@400V (400@220V)
Inverter Side		
Nominal Voltage (V) ^{*1}	127 / 220, 220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Voltage Range (V) ^{*2}	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: For Colombia, the Nominal Voltage(V) is :127/220, 220/380, 230/400, 240/415, 3Φ.

*2: For Colombia, the Voltage Range(V) is: 220, 380, 400, 415, 3Φ (+5%/-10%).

*3: 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.

*4: 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.