

GOODWE

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 1.5MW PV connection



Diesel generator control for enhanced system flexibility

| Technical Data | | GW500K-ST5-PCS-G10 |
|----------------------------------|--|--------------------|
| Grid Side | | |
| 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 | |
| Back-up Side | | |
| 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 | |
| ESS Side | | |
| 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 | |
| Smart-port Side | | |
| 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 | |
| Inverter Side | | |
| 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) | |
| General Data | | |
| 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 | |
| Certification | | |
| Safety Regulation | IEC61439-1, IEC61439-2, EN61439-1, EN61439-2, IEC60730 | |

*: Please visit GoodWe website for the latest certificates.