GOODWE

STS Series

(STS) Box is a cutting-edg Świtch switching solution designed for ommercial and use in industrial energy storage systems. This system enable 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-tied operation. The STS is versatile, supporting connections with generators and accommodating large loads such as heat pumps and motors. During grid-tied operation, the STS supports a maximum load capacity of 138kW (200A) for the backup interface. This robust solution ensures continuous and reliable power supply, offering flexibility and efficiency in energy management.





Paired with ET 50kW for UPS-level and off-grid switching



Supports control of diesel generator integration



Supports the connection and control of large loads



IP65 ingress protection for outdoor installations

- GOODWE

Technical Data	STS200-80-10
Electrical Data	
Nominal Output Voltage (V)	380 / 400, 3L / N / PE
Output Voltage Range (V)	176 ~ 276
Nominal AC Frequency (Hz)	50 / 60
AC Frequency Range (Hz)	45 ~ 65
Inverter Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA) ^{*1}	50000
Nominal Current (A)	72.5
Max. Current (A) ^{*2}	75.8
Grid Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA) ^{*3}	50000
Nominal Current (A)	72.5
Max. Current (A) ^{*4}	75.8
Back-up Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power without Grid (VA)	55000
Max. Apparent Power with Grid (VA)	138000
Nominal Current (A)	72.5
Max. Current (A) ^{*4}	83.3
Generator / PV inverter Side Data	
Nominal Apparent Power (VA)	50000
Max. Apparent Power (VA)	55000
Nominal Current (A)	72.5
Max. Current (A)	83.3
Other Electrical Data	
Nominal Current of AC Side Relay (A)	200
Nominal Current of Generator Side Relay (A)	90
Switch Time (ms)	<10
General Data	
Operating Temperature Range (°C)	-35 ~ +60
Max. Operating Altitude (m)	4000
Cooling Method	Natural Convection
Communication with Inverter	RS485
Weight (kg)	16.5
Dimension (W \times H \times D mm)	510 × 425 × 156
Mounting Method	Wall Mounted
Тороlоду	Non-isolated
Ingress Protection Rating	IP65
Certification	
Safety Regulation	IEC62109-1 / -2
	· .

EMC EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

*1: When the inverter is operating in the off-gird state, Max. Apparent Power of Inverter Side can be reached 55kW.
*2: When the inverter is operating in the off-gird state, Max. Current of Inverter Side can be reached 83.3A.
*3: Max. Input Power at grid port (purchased power) 138kW.
*4: Max purchases current of gid side and back up side can be reached at 200A.
*: Please visit GoodWe website for the latest certificates.