

SPC01 Power Control Box

The SPC01 Power Control Box is designed to realize the function of power limitation or zero-export control in accordance with local grid codes and regulations. It is being used with KSTAR three-phase PV grid-tied inverters (3-125 kW) via RS-485 interface. The built-in smart meter collects the power of the grid-tied side of the PV power station in real time.



Powerful

Support number of inverters up to 80
Long distance of inverter communication up to 1000 m



Easy to install

Wall / rack-mounted
IP65 for outdoor installation



Flexible Connectivity

Support multiple communication modes
Upload operating data to cloud server in real time



Strong Adaptability

Zero-export response time < 2s
Support remote update

Technical Specifications	SPC01
Input	
Rated Input Voltage	230 Vac (L-N) / 400 Vac (L-L)
Input Voltage Range	173 ~ 480 Vac
Gird Connection Type	3W + N + PE
Rated Input Frequency	50 / 60 Hz
Input Frequency Range	45 ~ 65 Hz
Lightning Protection Grade	Grade C
Communication	
Inverter Communication Terminals	RS-485*5
Max. Number of Inverter	80 (Each terminal connects up to 16 inverters)
Max. Distance of Inverter Communication	1000 m
Communication	Ethernet / WiFi / 4G (Optional)
HMI	Bluetooth + Indicator Light
Function	
Communication Failure Shutdown	Yes
Remote Update	Yes
Zero Export	Yes
Zero-export Response Time	2s
Zero-export Control Accuracy	3%
Mechanical Parameter	
Dimensions (W x H x D)	420 × 320 × 132 mm
Weight	5.3 kg
Operation Temperature Range	-25 ~+ 60°C
Cooling Type	Natural Convection
Max. Operation Altitude	3000 m
Operation Humidity	0 ~ 100% (No Condensation)
IP Class	IP65
Installation	Wall / Rack Mounted

