

## Smart Energy Controller

The SEC is a smart energy controller entirely developed by GoodWe. When combined with a GoodWe solar inverter, it is able to achieve real-time data collection and analysis. Furthermore, the SEC can automatically adjust active power output, power factor and other parameters of a solar power plant. It can even limit AC output to the grid, which further distributes and allocates system resources more effectively. The SEC is composed of GoodWe's three-phase meter and control board. It can be connected with SEMS to control and manage the performance of inverters in each string. Small box, mighty functions!



For both on-grid and storage



Reactive power compensation



Export power control



Real-time monitoring

Technical Data	SEC1000 (On-grid)	SEC1000S (Storage)
Input Voltage Range (V)	Phase Voltage: AC 60V~280V Line Voltage: AC 100V~480V	Phase Voltage: AC 60V~280V Line Voltage: AC 100V~480V
AC Input	3L / N / PE or 3L / PE	3L / N / PE or 3L / PE
Input Voltage Frequency	50Hz / 60Hz	50Hz / 60Hz
Input Current Range	5A (Max.)	5A (Max.)
Rated Power Consumption	<10W	<10W
Communication Mode with Inverter	RS485	RS485
Maximum Distance for Controlling Inverter	1000m (Using the mode of shielded twisted pair)	
Maximum Number of Inverters in Controlling	60 pcs	10 pcs
Communication Mode with Terminals	LAN or GPRS	-
Firmware	On-grid FW	Storage FW
Operating Temperature Range (°C)	-25~60	-25~60
Relative Humidity	0~100%, Non-condensing	0~100%, Non-condensing
Level of Protection	IP65	IP65
Size (L × W × H mm)	420 × 320 × 131mm	460 × 350 × 143mm
Weight (Kg)	4Kg	4Kg

\*SEC1000 has two models. One is for on-grid, and the other is for storage. The on-grid one is for monitoring, export power control and reactive power compensation, while the storage one (SEC1000S) is for export power control and ET Series inverter parallel control (up to 10 units).