



ENERGY STORAGE SYSTEM

EMS-A7 Micro-grid controllers



Product introduction:

The EMS-A7 series of micro grid controller is an energy management system for monitoring and controlling other devices such as PCS, batteries and smart meters in the entire micro grid system, which can be used in both on grid and off-grid modes. EMS-A7 can be used to monitor switching devices, which enable the system to switch between on grid and off-grid states, but switching commands maynot be sent by the EMS-A7.

The EMS-A7 series micro grid controllers can also be used in off-grid systems containing diesel generators.

Performance characteristics

For the DC conversion protection strategy, it meets the relevant standards of the photovoltaic industry, and has but is not limited to the following protection functions:

- PV input overvoltage protection
- PV input under-voltage protection
- Output overload protection
- Output current control
- Output short circuit protection
- DC reverse protection

At the same time, according to the BMS requirements of different batteries, the battery side charging status is protected according to its control strategy, including overcharge, overdischarge, capacity protection, etc.

Model	EMS-A7
Basic configuration	
Input (AC)	100V~240Vac L/N/PE
RS485	4 path
Ethernet	1 path 100M Network port; Expandable switches
CAN	2 path
USB	1 path
Digital input	5 path
Digital output	5 path
Operation system	Linux
Other parameters	
CPU	ARM Cortex-A7, 528MHz
RAM	256MB DDR3
Hard disk	256MB
RTC	Built-in real time clock
Indicator light	Power indicator light: Always on at power up
IP grade	IP20
Size (D*W*H) mm	210*290*42
Weight	3
Installation form	Wall/rack Installation
Operating temperature (°C)	-10~60
Storage temperature (°C)	-40~85
Altitude (m)	4000
Humidity	10~90%