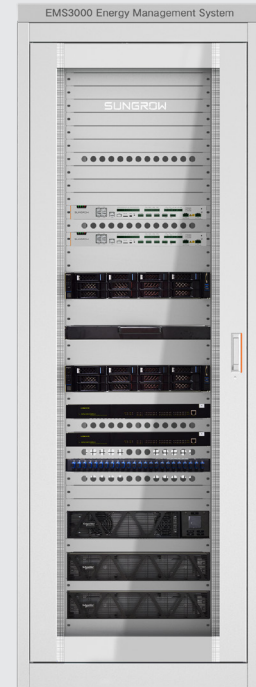SUNGROW
Clean power for all

EMS3000

EMS3000 integrates the hardware and software functions of EMS and local SCADA, and supports energy dispatch of utility plant with energy storage systems, and it can monitor and diagnose devices of the plant for easy and efficient O&M. Millions of monitoring points, support GW-scale BESS station management

Prolong battery life

- Prolong battery life: SOC balancing to improve system efficiency
- Battery cell warning, 7 days in advance health warning

Grid friendly

- Strong access capability:Support IEC 61850 GOOSE, DNP3.0
- Grid auxiliary service: primary frequency modulation, reactive power response, adapt to the grid-forming ESS to support the Grid
- Meet the requirements of the Grid Code in the UK,EU,Australia

Integrated management of PV & BESS

- Integrated management of optical energy storage to reduce initial costs
- Improve the revenue of the PV & BESS and reduce the operation and maintenance costs

Type designation	EMS3000
System	
Configuration	rack server ,EMS controller ,switch , KVM ,firewall (optional)
Ports	
RS485 interface	7
DI / DO	16 / 4
Fiber port	8 * 100 Mbps
Ethernet port	20 * 10 / 100 / 1000 Mbps
AI	2 * (4 mA - 20 mA), 2 * (0 Vdc - 10 Vdc)
CAN	1
Time Code Format B	1
Power supply	
AC Power supply	100 Vac - 240 Vac , 50 Hz / 60 Hz
Power consumption	1700 W
Ambient parameters	
Operating temperature	10 ℃ - 35 ℃
Operating humidity	10 % RH - 80 % RH
Elevation	≤ 5000 m
Protection class	IP20
Communication	
Communication medium	Optical fiber / Ethernet
Networking method	Bus type/ Star type/ Ring type
Communication protocol	Modbus RTU, Modbus TCP, IEC 61850 GOOSE, DNP 3.0, IEC60870-5-104
Certificate	
Certificate	IEC 62443 / IEC 61000 / CE / FCC / UKCA
Cabinet	
Dimensions (W * H * D)	800 mm * 2260 mm * 1000 mm