

## EMS300CP

The EMS300CP is a site controller specifically designed for commercial and industrial application scenario. It offers a variety of control strategies and protection strategies, provides efficient operation and maintenance solutions, as well as optimal personalized services, which increase the revenue of the ESS.



### CONTROL LOGIC

- P/Q/PF control
- Comprehensive protection strategy



### SAFETY & RELIABILITY

- SOC balancing and protection
- IEC62443-4-2 certification
- Real-time monitoring and alarm



### EFFICIENT O&M SERVICE

- WEB & APP O&M tools
- Local & Cloud O&M Service
- One-Click update function



| Technical parameters   |                                                                                                                                                                                                                                                                          | EMS300CP |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| System                 |                                                                                                                                                                                                                                                                          |          |
| Controller functions   | Self-consumption, Time plan, Feed in limitation, Peak shaving, Virtual meter, Overload protection, Dynamic capacity expansion, P/Q/PF control, SOC intelligent management, Emergency power backup□collaborative control of PV&ESS&EVC, Coordinated Control of DG and ESS |          |
| iSolarCloud functions  | Real-time monitoring, Remote upgrade, Remote O&M, API                                                                                                                                                                                                                    |          |
| Certification          | CE / IEC62443-4-2 / EN18031                                                                                                                                                                                                                                              |          |
| Communication          |                                                                                                                                                                                                                                                                          |          |
| RS485 interface        | 7                                                                                                                                                                                                                                                                        |          |
| Ethernet port          | 2 * 10 / 100 Mbps                                                                                                                                                                                                                                                        |          |
| Communication protocol | IEC 60870-5-104, Modbus RTU / TCP                                                                                                                                                                                                                                        |          |
| IO                     |                                                                                                                                                                                                                                                                          |          |
| DI / DO                | 16 / 4                                                                                                                                                                                                                                                                   |          |
| AI                     | 4 ( 1 * AI: 0 VDC ~ 10 VDC, 3 * AI: 4 mA ~ 20 mA )                                                                                                                                                                                                                       |          |
| Power supply           |                                                                                                                                                                                                                                                                          |          |
| AC input               | 100 VAC ~ 264 VAC, 50 Hz / 60 Hz                                                                                                                                                                                                                                         |          |
| DC input               | 24 VDC ( ±10 % )                                                                                                                                                                                                                                                         |          |
| Ambient conditions     |                                                                                                                                                                                                                                                                          |          |
| Operating temperature  | -30 °C ~ 60 °C                                                                                                                                                                                                                                                           |          |
| Storage temperature    | -40 °C ~ 70 °C                                                                                                                                                                                                                                                           |          |
| Operating humidity     | 0 % ~ 95 % ( non-condensing )                                                                                                                                                                                                                                            |          |
| Operating altitude     | ≤ 4000 m                                                                                                                                                                                                                                                                 |          |
| Ingress protection     | IP20                                                                                                                                                                                                                                                                     |          |
| Mechanical parameters  |                                                                                                                                                                                                                                                                          |          |
| Dimensions (W*H*D)     | 440 mm * 44 mm * 224 mm                                                                                                                                                                                                                                                  |          |
| Weight                 | 3 kg                                                                                                                                                                                                                                                                     |          |
| Cable specification    | Power Cable: 1.0 mm², ≤ 10 m<br>RS485 Cable: 0.75 mm² ~ 1.5 mm² outdoor-type, anti-UV, twisted-pair cable, with a shielding layer and ≤ 1000 m ( @baud rate 9600 )                                                                                                       |          |

