



Site Power Controller

Enabling Advanced Grid Feed-in Management

The SolarEdge Site Power Controller (SPC) ensures commercial PV systems benefit from controlled grid injection at varying voltage levels, and is compliant with different regional, national and international grid codes.

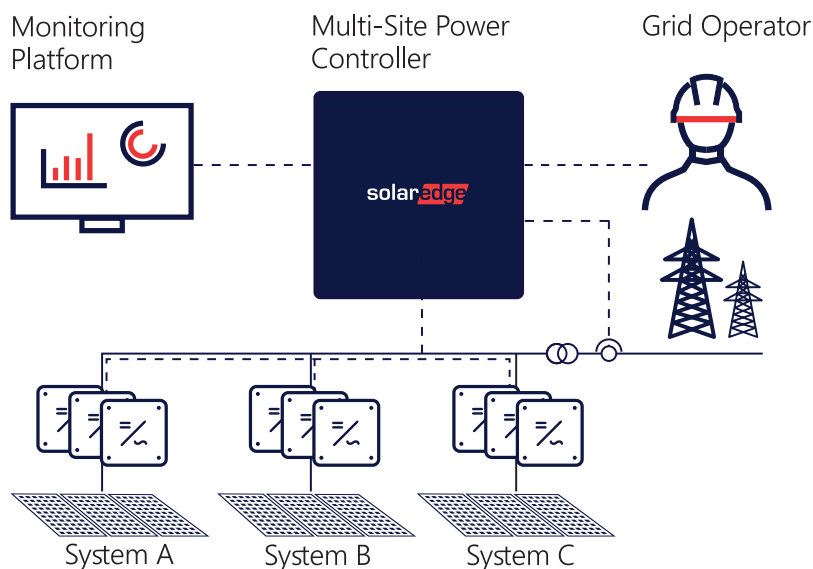
Fully optimized with the SolarEdge ecosystem, the SPC minimizes costs and complexity associated with third-party integrations and enables fast time to market.

- / Multi-site power management
- / Easy installation
- / Quick setup with ready-to-use features
- / Adaptable to varying site requirements
- / Full system offering, warranty, and service from SolarEdge

Functional Range

- / Closed loop control for automatic voltage regulation and active/reactive power
- / Power curtailment and ramp rate control
- / Data logging of control commands, access, status & settings changes
- / Feedback of plant status to utility grid control network
- / Alerts for quick faults identification
- / Self-management and recovery
- / HMI web interface
- / Protocols: Modbus RTU, Modbus TCP, IEC 60870, DNP3, Direct Marketing
- / I/O: RS485, Digital, Analog, Ethernet, SFP, Cellular

A Single Access Point Ensuring Reliable Grid Integration of Commercial and Large Scale PV Installations



SE2000-PFSV-MSDC-4BPC

| Product Specifications | | Unit |
|--|--|-----------|
| Mechanical Specifications | | |
| Dimensions (H x W x D) | 170 x 165 x 61 / 6.7 x 6.5 x 2.4 | mm/in |
| Wiring on Screw Connectors | I/O cables, max. 14 AWG | |
| Assembly | DIN rail, wall support | |
| Weight | < 200 | g |
| Networking and Protocols | | |
| LAN | 100Mbps Ethernet port, RJ45 connectors | |
| Wi-Fi | 802.11 b/g/n Wi-Fi interface | |
| Cellular | 3G cellular module 4G/LTE cellular module (EU/US bands) On-board micro-SIM card socket | |
| Communication Protocols | Modbus RTU, Modbus TCP, IEC 60870, DNP3, Direct Marketing | |
| Inputs and Outputs (I/O) Interfaces | | |
| USB | 2 x USB 2.0 host, type A connectors | |
| Serial | 1 x RS232 port, ultra-mini serial connector | |
| RS485 | 2 x RS485 ports, half duplex 2 wire, RJ11 connector | |
| Digital I/O | 8 x DIO, 5V tolerant, 100 – mil header | |
| Analog I/O | 4 x AIO channels + 0-10V SE input 4 x AIO channels + 4-20mA SE input | |
| Environmental Limits | | |
| Operation Temperature | -10 to 75 / 14 to 167 | ° C / ° F |
| Storage Temperature | -40 to 85 ° / -40 to 185 ° | ° C / ° F |
| Relative Humidity | 5 to 95 | % |
| Altitude | Up to 2000 / 6561.68 | m/ft |
| Electrical Specifications | | |
| Supply Voltage | 12, 24, 48 nominal, allowed from 9-60 | VDC |
| Consumption | 120 mA @ 12 | VDC |
| Warranty | | |
| Standard Warranty | 2 years (extendable to 5 years) | |