SC300 System Controller



Typical Applications:

- 24V & 48V power systems
- Wireless cell sites & switches
- Transmission terminals
- Local & central office switching
- Solar hybrid systems
- Data collection and control (SCADA)

Options:

- Additional I/O boards for system expansion
- SiteSure-3G modules for site management
- FC100 fan controller for outdoor cabinet / shelter cooling control

The Eaton® SC300 System

Controller is an advanced control and monitoring solution for Eaton DC Power Solutions.

The SC300 replaces the SC200 controller, providing higher performance and a range of advanced features, while being fully compatible with existing systems.

It provides a full suite of advanced communications options, including built-in Ethernet interface, Web server, and SNMP agent.

Alarm notifications may be by SNMP traps, email, SMS, or relay contact closures.

An intelligent "Smart Alarms" feature provides highly configurable control and alarms to automated site management and improves performance – e.g. disconnect loads during peak AC grid loading, run outdoor cabinets in low noise mode

New Software Features:

- 100BaseT Ethernet
- IP version 6
- Meter up to 20 channels of energy and power
- Control ASC48-ES solar charger
- Add, average and Multiply input values with SmartAnalogs
- Outdoor cabinet fan control (with FC100)
- User-configurable data / event log

at night, manage cooling, or customise site alarms to network requirements.

The SC300 provides full generator control and fuel metering capability for off-grid, hybrid generator, battery, solar and wind applications.

The SC300 is supplied preconfigured with a default configuration file, or factory customized for a particular application, ensuring fast and problem free installation. On-site changes are easily made from the front panel or with a Windows PC.

The high-resolution colour LCD display is easy to read and has an easy to use menu structure.

The SC300 works with separate system I/O boards for powerful and user-friendly interfacing. Easy, low cost I/O expansion is possible by adding additional I/O boards.

Features:

- Ethernet interface built-in
- SNMP agent V2c and V3
- Battery mid-point monitoring & discharge time remaining
- Generator control & fuel metering
- Alternative energy input metering
- Comprehensive system control functions
- Complies with international standards
- Setup via web, keypad or DCTools configuration software
- · Language options
- Optional extra I/O boards or SiteSure-3G modules for expansion
- Latched or normally-open LVD options
- Smart alarms
- Modbus



Technical Specifications

With IOBGP

Supply Voltage Range	18 to 60Vdc
Operating Range	Standard: -10 to +50°C [+14 to +122 °F] Extended: -25 to +70°C [-13 to +158 °F]

Input / Output Standard

Communications Interfaces Physical

Management software

Software

Standard	
Analog inputs	Current sensor (3), Bus voltage (1), Temperature (2)
Digital inputs	4 Internal (pre-defined) 6 external (user-defined) with IOBGP-00/01 9 external (user-defined) with IOBGP-10/11/20/21
LVD contactor outputs	2 with one IOBGP-00/01/20/21 module 3 with one IOBGP-10/11 module Latched or normally-open contactor options Up to 16 with additional IOBGP modules
Relay outputs	Voltage free, NO-C-NC, 0.1A @ 60VDC Screw-less terminal block, 0.5mm ² - 2.0mm ² conductors Number: 6 with IOBGP-00 8 with IOBGP-20/21 10 with IOBGP-10/11

Ethernet (100BaseT), Micro USB (type AB), RS-485

IPV4, IPV6, http, https (secure web), S3P, Modbus, SMTP (email), SNMP V2c, V3 DHCP and Auto IP

PowerManagerII remote management software. SNMP version V2c or V3. Supports standard Network

Modbus-TCP and Modbus-RTU. Supports standard

Display	Back-lit color dot matrix LCD 160 x 128 pixel Adjustable viewing angle
Keypad	6 keys
Language Option	Default: English Option: German Other language software upgrades by arrangement.
Indicators	Power on, Critical/Major alarm, Minor alarm
Mechanical	
Dimensions H,W,D	SC300: 133.5mm (3U), 44.5mm, 70mm IOBGP: 106mm, 175mm, 18mm
Mounting	SC300: rectifier slot or flush panel mount Orientation: vertical or horizontal IOBGP: panel mount
Datalogging Maximum size	
Event log	10.000 records
Data Log	10,000 records
Energy Log	10,000 records
Options	
Input / Output	With IOBSS module (SiteSure-3G): Analog inputs: 60 Digital inputs: 108 Digital outputs: 108
Modem communications	GSM modem for SMS alarm notification 3G Router for full wireless communication
Certifications	
China	MI

In the interests of continual product improvement all specifications are subject to change without notice.

BMS software.

Management System software.

and RS-232

Web server

Email: dc.info@eaton.com www.eaton.com/dcpowersolutions

China	MII
North America	UL, FCC Verification, IC
Europe	CE
Australia / New Zealand	RCM

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