Controller
CSU 501

Description

The Delta CSU 501 controller is the solution for small power systems. Enhanced functions, such as efficiency mode enable operating cost reductions. The advanced battery management with capacity test and flexible supervision of system components make it easy to monitor system availability and plan site visits in a cost effective manner.

Remote monitoring and alarming, and consequent cost savings are ensured with potential-free relay contacts and modem or LAN/Ethernet or SNMP. An integrated web server offers a user-friendly interface with a standard browser both for local and remote communication.

Delta's advanced supervision units make it easy to measure, monitor and control your power system operations.

Delta controllers are the intelligence of power systems enabling significant cost savings in both OPEX and CAPEX. Cumulative cost savings of genset downsizing or remote monitoring possibilities can be tremendous. Delta controllers deliver the benefits modern technology can offer.

Main features

- Modular power system controller
- Integrated, user friendly web server (option), display and keys
- User configurable alarms and settings
- Advanced battery management and testing
- Energy saving functions
- Remote monitoring with modem or LAN
- Advanced site remote monitoring & control

Applications

CSU 501 is used in Delta CellD, MidD, and OutD systems for:

- Network base stations
- Wireless applications
- Fixed line applications, data communications

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Technical specifications

1. Functions

System	
	User configurable alarms and settings via NRMS
	AC voltage measurement via NRMS
	LVD and PLD functions, up to 3
	Event log for 100 entries with time and date via NRMS
	Configurable alarm relays via NRMS
	Build-in real time clock
	Password management
Battery	
	Temperature compensated float charge
	Boost and equalize charge
	Charging current limitation (advanced)
	Low voltage disconnection
	Automatic capacity test
	Middle point measurement (option)
Rectifiers	
	Individual rectifier information and control
	Efficiency mode / Energy saving
	Remote control and voltage adjustment by controller

2. Features

Rectifier interface	Digital, RS 485
Number of rectifiers	Up to 8 (for 23" power shelf) Up to 6 (for 19" power shelf)
Digital input	Up to 12
Relay output	Up to 8 (1 fixed; 7 can defined)
Temperature	Up to 3
Voltage, current	Voltage, load current, 2 x battery current
Display	7 segment LED display
Local monitoring	RS232 by Delta NRMS software
Remote monitoring	LAN/modem/WEB browser/SNMP (option)
Remote alarming	Dry contacts / SNMP (option)
Languages	Multi language (WEB interface)

3. User interface

Local user interface	12 LEDs 3 LED display (7-Segment type) 3 buttons
Communication	RS-232 for DB9
WEB Server	Optional
SNMP	Optional

3. General

Voltage range	18 - 60 VDC
Current	0.75 ADC (max)
Input protection	Internal fuse 1.35 A
Input switch	None
Dimensions (H x W x D)	40 x 150 x 230 mm 1.5 x 5.9 x 9.05 in
Weight	1 kg 2.1 lb
Standards • Safety • EMC	With System EN 60950, class I UL 60950 CAN / CSA - C22.2 EN 55022, class B
Cooling	Natural air flow
Operating temperature	-25 to +65 ºC -13 to +140 ºF
Relative humidity	95 %, non-condensing

Subject to change without notice.

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