harmer & simmons

HSR48ACU

DC POWER CONTROLLER



Product description

HSR48ACU is the new generation DC power controller module developed by Harmer & Simmons. The Controller module adopts ARM 32-bit Cortex M4 CPU as primary controller, and RTOS as system platform. HSR48ACU offers many features and functions, and a more robust, user friendly, and easy to use interface.

Applications

Indoor/outdoor power supply

In addition to controlling rectifier modules, AC/DC distribution, HSR48ACU manages battery charge, discharge, test, maximizes battery capacity and lifespan. With improved memory, HSR48ACU can store mass alarm/event and data logs for system performance analysis and fault diagnose.

DI/DO connectors and RS485/Ethernet ports provide flexible extension function and parameters setting, software and logs downloading/uploading, remote monitor system accessing.

Key features

Indoor/outdoor power supply

- Flexible and scalable to satisfy your present and future needs
- Smart battery management gives long battery lifespan
- Automatic battery test including advanced scheduled test / constant test / fast test
- Lower operating cost due to energy saving standby function for rectifier
- Powerful hybrid power management function
- Log record and statistic with advanced algorithm
- Minimized installation time because of easily configurable file upload/download

Key functions

Measurement

- Analog value measurement
- Digital value measurement

Communication

- The Controller can communicate with the host computer in 2 modes: RS485 and Ethernet (WEB and SNMP). It can communicate with and solar modules in CAN bus mode.
- 2 southbound RS485 for battery BMS or extension function boards.
- For remote and local monitor system via WEB browser, controlling, parameters upload /download, data load.
- SNMP protocol supports GET, SET and TRAP on Ethernet.

DI/DO

- 8+1 user digital input interfaces freely configurable
- 8 groups of dry contact outputs freely configurable

Screen and LEDS

- 128x32 LCD screen display running information and local setting interface.
- Green/Yellow/Red LEDS indicate running status for local instant diagnose.

Alarm history, event history store

- 1000 alarms history and 1000 events history store, FIFO for system analysis.

Data log store (advanced version)

- 2000 data logs including bus voltage, load current, battery current and temperature with time tag.

Harmer & Simmons: Approach your local Harmer & Simmons representative for further support.

Contact details can be found on: **www.harmer-simmons.com**

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PRODUCT FEATURES

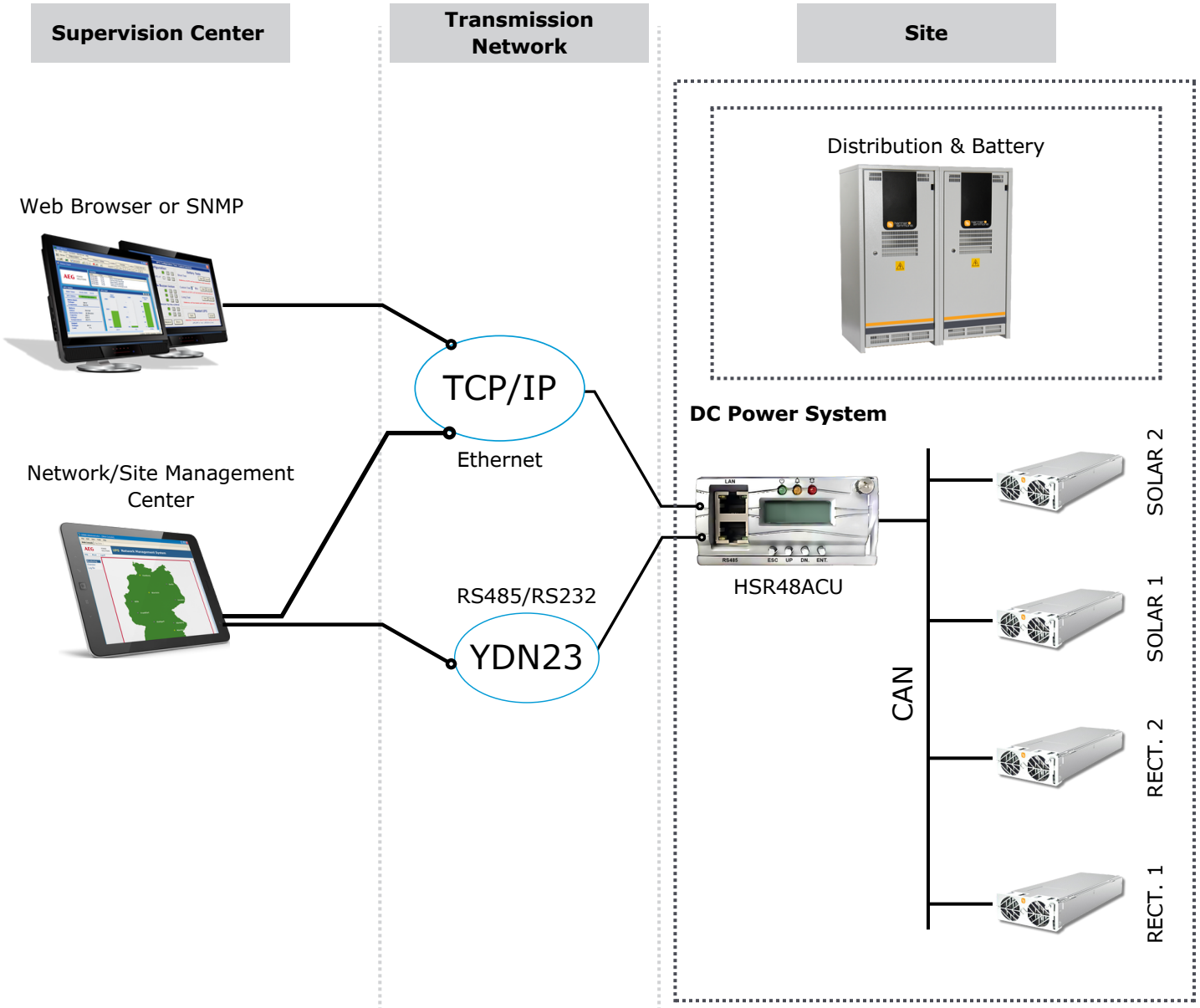
Remote Metering	Remote Control	Battery Management	Energy Saving Mode
6 ways AC volts	Equalizing and floating charge of battery	Boost Charge	High/standard efficiency rectifiers mixture management
11 ways DC volts	Voltage regulating of rectifier or solar modules	Temperature Compensation	Rectifiers running cyclic
4 ways Load currents	Current limiting of rectifier or solar modules	Battery Test	Rectifiers running dormancy
2 ways Battery currents	On/Off control of rectifier or solar modules	Low Voltage Disconnection	
3 ways Battery temperature	4 ways Load disconnect	High Temperature Disconnection	
1 ways Ambient temperature	1 way Battery disconnect	Battery Capacity Prediction	
Rectifier modules voltage/current			
Solar modules voltage/current			
Alarms/Events			
SPD alarm	Load disconnect	Rectifier on/off status	Battery charge over-current
Configurable digital input alarm	Battery disconnect	Solar communication fail	Battery temperature alarm
Load fuse alarm	AC power failure	Solar fault	Ambient temperature alarm
Battery fuse alarm	Rectifier communication fail	Solar fan fault	Battery imbalance
Manual mode alarm	Rectifier AC input failure	Solar protect	System energy-saving mode
Battery discharge	Rectifier fault	Solar on/off status	Energy-saving fault
Current imbalance	Rectifier fan fault	AC over voltage and under voltage	
Battery test fail	Rectifier protect	DC over voltage and under voltage	

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SITE MONITORING SOLUTION



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