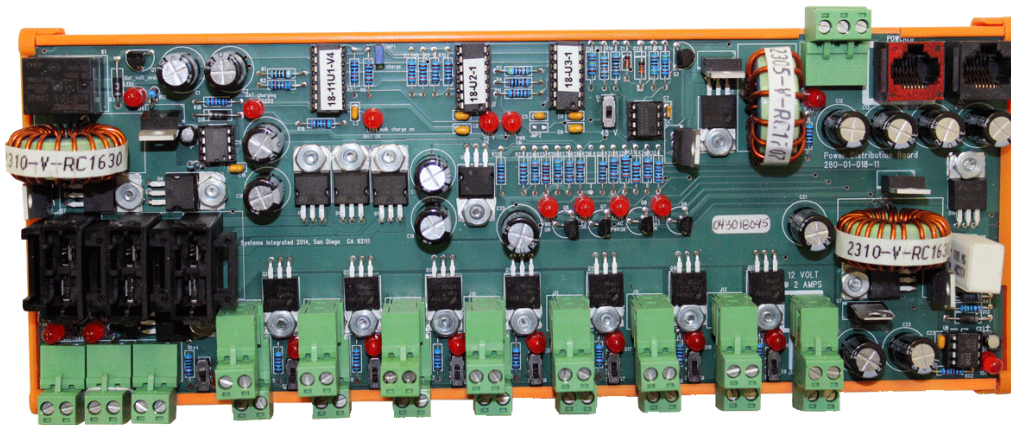


DC POWER DISTRIBUTION BOARD

The model 280-018-08 Power Distribution Board is designed to provide multiple voltages to support Power over Ethernet, Battery charging PLC power and Ethernet Switch power. The board accepts 32 VDC and provides out 48 volt DC for POE, and Battery charging voltage (Bulk charge and float voltage). The 280-01-018-08 is designed to operate with a 33 volt power supply and can accept currents up to 8 amps. Output current are fuse limited. When operating on batteries, the 280-01-018-08 has a low voltage cutoff to prevent deep discharge of the battery.



SIPAC1-280-01-018-13

FEATURES

- All field connections through removable terminal blocks
- Battery charger provide for three modes of operation: Bulk, over-charge and float
- POE voltage generated on the board
- Ethernet switch voltage generated on the board
- Automatic battery switch control
- Power indicators for each output
- Individually controlled outputs allowing continued operation during replacement of parts
- Status outputs for AC power and battery
- Microprocessor controlled

TECHNICAL INFORMATION

Input Voltages

Primary Input Voltage Source

Maximum Permissible Voltage	36 Volts
Max Permissible Input Current	8 Amps
Fuse Protected. Fuse Rating	8 Amps

Battery Input Voltage Source

Maximum Permissible Voltage	32 Volts
Maximum Battery Current Draw	6 Amps
Fuse Protected. Fuse Rating	8 Amps

Battery Charging Circuit

Bulk Battery Charging voltage (maximum)	30.5 Volts
Max Battery Charging Current	1 Amp
Float Battery Charging Voltage	29.1 Volts
Shorted Cell Protection	yes
Minimum Battery Voltage for Charge	16 Volts
Temperature Compensation	yes

Status Outputs

AC Power Available	Sink Output
Low Battery	Sink Output
Battery Fully Charged	Sink Output

Power Distribution Switches

Individual power switches and indicators provided for:

PLC	24 Volts (nom)
RTU enclosure power	24 Volts (nom)
Analog loop power	24 Volts (nom)
Digital wetting voltage power	24 Volts (nom)
Additional POE power injection	24 Volts (nom)
Ethernet switch power	24 Volts
Radio Power	24 Volts (nom)

Output Voltages

48 volt POE

Voltage Regulation	± 10%
Maximum Current	420 ma
Over Current Protection	yes

Ethernet Switch Power

Voltage Regulation	1%
Maximum Current	1.5 Amps
Over Current Protection	yes

Primary / Secondary Switching

Switching time primary to secondary	20 ns
-------------------------------------	-------

Primary Input Operations

Primary Voltage Regulation	± 1%
Over Current Protection	yes
Over Voltage Protection	yes

Battery Operations

Low Voltage Cutoff	20 Volts
Maximum Current	8 Amps
Over Current Protection	yes

Input Power Switches

Primary Input Power Switch
Battery Power Switch

Environmental

Temperature	0°C to 60°C
RH	5% to 95%

Terminal block connectors

Wire size 14 AWG