

监控模块 — PMU02

概述

PMU02 是一个控制和监理单位在直流电源解决方案机框系列而设计的。本机提供了所有的监测和控制整流模块，以及提供全面的电池管理和先进的远程通信能力。可编程报警阈值设置和报警输出可通过远程通讯提供。

该PMU02提供了一个完整的系统状态概述，会议在电信和公用事业行业的不同运营商的要求，也可以扩大，以容纳如电池电压，交流电源参数监测功能，以及在其他设备监控网站，如空调，消防报警等。



功能特征

- 系统
 - 系统电压和总负载电流监控
 - 系统电压调节和母线电压降补偿
 - 实时时钟备份 (无电池保持)与超级电容器
 - 负载熔丝
- 电池
 - 电池电流监控(对于电流传感器范围)
 - 电池及环境温度测量
 - 电池充电温度补偿
 - 主动控制电流充电电池(3电池电压地区)
 - 电池均等化/升压充电
 - 电池保险丝
 - 控制电流的电池放电测试 (定期或手动触发)
 - 控制断开电池低电压/负载
- 整流器
 - 整流器报警阈值的编程
 - 整流模块电流监测
 - 整流器数据检索-序列号，内部温度
- 用户/本地通信接口
 - 3现场用户的状态指示灯
- 远程通讯接口
 - 隔离型RS- 232或RS- 485连接选项，以设备的中央监控室

可告警

- 系统
 - 电源故障 (交流电压详细的报警器, 电流)
 - 负载熔丝
 - 环境温度高
 - 温度传感器故障
 - 过量系统总线电压降落 (系统电压钳)
- 电池
 - 电池放电
 - 高电池电压
 - 低电池电压
 - 高电池温度
 - 低电压电池/负载断线
 - 电池保险丝
- 整流器
 - 整流器故障
 - 通讯故障整流器
 - 整流器的电流限制
 - 整流器的热限制
 - 整流器过压保护

说明

- 直流输入
 - 电压54VDC
 - 在54VDC200mA的典型电流
 - 包括极性反向保护
 - 环境
 - 操作 -40°C 至 +70°C
 - 湿度0 到100% RH 冷凝
 - 海拔高度, 至 4000米
- 机械尺寸
 - 宽66.4mm
 - 深198.8mm
 - 高40.4mm
 - 重 <0.5kg

CONTROL MODULE — PMU02

Overview

The PMU02 is a control and supervisory unit designed for use in the Powershelf series of DC power solutions. The unit provides all the monitoring and control of the rectifier modules, as well as providing comprehensive battery management and advanced remote communications capabilities. Alarm threshold settings are programmable and alarm outputs are provided through remote communications .



The PMU02 provides a full overview of the system status, meeting the requirements of different operators in the telecom and utility industries, and can also be expanded to accommodate monitoring functions such as battery cell voltage, AC supply parameters, and monitoring of other equipment at the site, such as air-conditioning, fire alarms and others .

functions & features

- **System**
 - System Voltage and Total Load current monitoring
 - System Voltage Regulation and Bus Voltage Drop Compensation
 - Real Time Clock with Supercap backup (no battery to maintain)
 - Load Fuse
- **Battery**
 - Battery current monitoring (for a range of current sensors)
 - Battery & Ambient Temperature Measurement
 - Battery Temperature Compensation Charging
 - Active Controlled Battery Current Charging (3 battery voltage regions)
 - Battery Equalisation/Boost Charging
 - Battery Fuse
 - Controlled Current Battery Discharge Testing (periodic or manual triggered)
 - Control of Low Voltage Battery / Load disconnect
- **Rectifier**
 - Rectifier Alarm Threshold programming
 - Rectifier Module Current Monitoring
 - Rectifier Data retrieval - Serial Number, Internal Temperature
- **User/ Local Communications Interfaces**
 - 3 status LEDs for onsite users
- **Remote Communication Interface**
 - Isolated RS-232 or RS-485 options for connection to central monitoring room of a plant

available alarms

- System
 - Mains Failure (detailed Alarms for AC voltage, current)
 - Load Fuse
 - High Ambient Temperature
 - Temperature Sensor Failure
 - Excess System Bus Voltage Drop (System Voltage Clamp)
- Battery
 - Battery Discharge
 - High Battery Voltage
 - Low Battery Voltage
 - High Battery Temperature
 - Low Voltage Battery/Load Disconnection
 - Battery Fuse
- Rectifier
 - Rectifier Failure
 - Rectifier Communications Failure
 - Rectifier Current Limit
 - Rectifier Thermal Limit
 - Rectifier Overvoltage Protection

Specifications

- Input DC
 - Voltage 54VDC
 - Current 200mA typical at 54VDC
 - Polarity reversal protection included.
 - Environmental
 - Operating -40°C to +70°C
 - Humidity 0 to 100% RH condensing
 - Altitude Operational to 4000m
- Mechanical Dimensions
 - Width 66.4mm
 - Depth 198.8mm
 - Height 40.4mm
 - Mass <0.5kg