



## DESCRIPTION

**SMU48G1** is a digital controller designed for Sunelt's PSU to provide real-time monitoring and management of telecom power infrastructure.

## MONITORING

- AC/DC voltage, current, power
- Rectifiers data
- Battery data
- External sensors (ambient temp, battery temp, humidity, door sensor, smoke sensor, flood sensor)
- 2DI (+4DI with an extension board) for dry contacts
- Battery and load fuse status

## COMMUNICATION

- Ethernet (TCP/IP support)
- RS485
- SNMP monitoring
- SNMP trap
- Web interface
- Cloud monitoring software

## DETECTION & REPORTING

- 4DO (+4DO with an extension board) for alarms
- Digital outputs can be set NC or NO
- Multiple levels of alarms
- LED indicator and buzzer
- Historical data (1000 entries)

## RECTIFIER MANAGEMENT

- Adjusting output voltage
- Limiting output current
- Intelligent power management
- ECO (sleep) mode

## BATTERY MANAGEMENT

- Equalization and float charge
- Temperature compensation
- High/low temp alarms
- Charging current limit
- LVBD
- Battery testing
- SoC detection

# PSU CONTROLLER SMU48G1



| TECHNICAL DATA               |                                     |
|------------------------------|-------------------------------------|
| Rated voltage                | 53.5VDC                             |
| Voltage range                | 42VDC ~ 58VDC                       |
| Rated current                | <0.5A                               |
| Communication                | Ethernet, RS485, SNMP               |
| User interface               | Display, Web interface              |
| MONITORING                   |                                     |
| Input voltage                | √                                   |
| Input current                | √                                   |
| Output voltage               | √                                   |
| Load current                 | √                                   |
| Battery current              | √                                   |
| Rectifier status             | √                                   |
| Rectifier voltage            | √                                   |
| Rectifier current            | √                                   |
| Rectifier temp               | √                                   |
| External sensors:            |                                     |
| Ambient temp                 | √                                   |
| Battery temp                 | √                                   |
| Humidity                     | √                                   |
| Door sensor                  | √                                   |
| Smoke detector               | √                                   |
| Flood sensor                 | √                                   |
| Digital inputs               | 2DI + 4DI<br>(with extension board) |
| RECTIFIER MANAGEMENT         |                                     |
| Output voltage control       | √                                   |
| Output current limiting      | √                                   |
| Intelligent power management | √                                   |
| ECO (sleep) mode             | √                                   |

| BATTERY MANAGEMENT              |                                     |
|---------------------------------|-------------------------------------|
| Equalization                    | √                                   |
| Float charge                    | √                                   |
| Temperature compensation        | √                                   |
| Battery periodic testing        | √                                   |
| Charging current limit          | √                                   |
| High/low temp alarm             | √                                   |
| LVBD                            | √                                   |
| LULD                            | √                                   |
| State of charge (SoC) detection | √                                   |
| REMOTE MONITORING               |                                     |
| SNMP                            | √                                   |
| SNMP trap                       | √                                   |
| Web interface                   | √                                   |
| RS485                           | √                                   |
| Remote monitoring               | √                                   |
| ALARM & REPORTING               |                                     |
| Digital outputs                 | 4DO + 4DO<br>(with extension board) |
| DO state                        | NC or NO                            |
| LED indicator                   | √                                   |
| Buzzer                          | √                                   |
| Alarm level                     | Minor/Major                         |
| Historical data                 | 1000 entries                        |

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