

## COMPACT, RICH-FEATURED, HOT SWAPPABLE, ALL-IN-ONE CONTROLLER

The Smartpack S covers all control and monitoring needs of small to medium telecom and industrial DC power systems. Status and configuration is fully available through the display locally, or through the Ethernet plug both remote or locally.

Designed for the Flatpack S and Flatpack2 system platform, the Smartpack S finds its way into many applications.



# SMARTPACK S CONTROLLER

PANEL MOUNT FOR 12V<sub>DC</sub>, 24V<sub>DC</sub>, 48 V<sub>DC</sub> & 60 V<sub>DC</sub> SYSTEMS

Doc 242100.415.DS3 – v1

### APPLICATIONS

#### TELECOM – MOBILE / WIRELESS

- RADIO BASE STATIONS/ CELL SITES
- LTE / 4G / WIMAX
- DISTRIBUTED ANTENNA SYSTEMS
- BROADBAND

#### TELECOM – FIXED

- FIBER OPTICS / FTTH
- MICROWAVE
- CABLE
- BROADBAND

#### OFFSHORE AND PROCESS INDUSTRY

- SAFETY AND AUTOMATION SYSTEMS (SAS)

#### RAILWAY INFRASTRUCTURE

- CONTROL & PROTECTION
- SIGNALING



300A FP2 SYSTEM

### KEY FEATURES

- GRAPHICAL 2.2" TFT HIGH CONTRAST, HIGH RESOLUTION COLOR DISPLAY FOR EASY NAVIGATION IN USER MENU
- ETHERNET FOR REMOTE OR LOCAL MONITORING AND CONTROL VIA WEB BROWSER
- SNMP PROTOCOL WITH TRAP, SET AND GET ON ETHERNET. EMAIL OF TRAP ALARMS
- 6 PROGRAMMABLE RELAY OUTPUTS
- 6 PROGRAMMABLE MULTI-PURPOSE INPUTS ("DIGITAL INPUTS" OR ANALOG SIGNALS).
- COMPREHENSIVE LOGGING
- AUTOMATIC BATTERY MONITORING AND TEST
- BATTERY QUALITY INDICATION (BASED ON TEST RESULTS)

# SMARTPACK S CONTROLLER



PANEL MOUNT FOR 12V<sub>DC</sub>, 24V<sub>DC</sub>, 48 V<sub>DC</sub> & 60 V<sub>DC</sub> SYSTEMS

## TECHNICAL SPECIFICATIONS

| Model  | Smartpack S – Panel Mount  |
|--|--|
| Part number  | 242100.415   |
| <b>INPUT DATA</b>  |  |
| Voltage (nominal)  | 10 - 75 V <sub>DC</sub>  |
| System output grounding  | Supports positive, floating and negative distributions. All inputs are referenced to shunt.  |
| Power Consumption, max - no relays energized<br>max - all relays energized | 3,1W (display sleep)<br>5,5W (display on)  |
| <b>SYSTEM CONNECTIONS - SYSTEM MONITORS</b>                                |  |
| Voltage sense, system voltage support                                      | 12 V <sub>DC</sub> , 24V <sub>DC</sub> , 48V <sub>DC</sub> & 60V <sub>DC</sub>   |
| Current sense, shunt support   | 0 - 20mV and 0 - 60mV  |
| Battery fuse monitoring  | Auxiliary switch NO/NC, Pull up/down   |
| Load fuse monitoring   | Auxiliary switch NO/NC, Diode Matrix Pull up/down  |
| Ground fault detection   | Simple bridge circuit detection [Tolerance: ±10%, alarm range: 25kΩ – 500kΩ]   |
| Fan speed monitoring   | Tacho sense 0-65000 rpm [Input max. 15V]   |
| <b>SYSTEM CONNECTIONS - LVD CONTROL</b>                                    |  |
| Battery disconnect   | 1 (latched or non-latched supported)   |
| Load disconnect  | 1 (latched or non-latched supported)   |
| <b>INPUTS AND OUTPUTS</b>  |  |
| Digital configurations, Inputs #1-6  | Auxiliary switch: NO/NC<br>Temperature (for NTC probe)   |
| Analog configurations, Inputs #1-4   | Analog Voltage[±0 - 10V]<br>±4-20mA current measurement (through external 470kΩ resistor)  |
| Analog configurations, Inputs #5-6   | Analog Voltage[0-75V]<br>Symmetry measurement  |
| Output configurations, Outputs #1-6 (alarms)                               | 6x Relay–Dry/Form C<br>Configurable Normally Open/Closed<br>[Max capacity 75V/2A/60W]  |
| Fan Control  | Analog Voltage [0 - 10V]<br>Output Current 0 - 20 mA<br>Fan Input Impedance minimum 10 kΩ  |
| CAN Power Available for Eltek CAN Nodes                                    | 500mA  |
| <b>USER INTERFACE</b>  |  |
| Local  | 2.2" TFT 65k Colour display, QVGA resolution, 4 keys   |
| Ethernet port  | 10/100 BASE-T (HP Auto MDI/MDI-X)<br>IP protocols: HTTP / SSL, SNMP v3, MODBUS TCP and pComm UDP (PowerSuite)  |
| Serial port  | RS-232 and RS-485 on RJ11 connector<br>Serial protocols: MODBUS RTU, Modem Call-Back/SMS reporting (PSTN or GSM), COMLI, CSCP and pComm (PowerSuite) |
| <b>GENERAL SPECIFICATIONS</b>  |  |
| Dimensions (WxHxD*) * depth behind panel                                   | 232.2 x 76.2 x 33.0mm (9.1 x 3 x 1.3")   |
| Temperature Range  | Operating -20 to +60°C (-40 to 140°F)  |
| <b>DESIGN STANDARDS</b>  |  |
| Electrical safety  | UL 60950-1-3 <sup>rd</sup> edition, EN 60950-1-3 <sup>rd</sup> edition   |
| EMC  | ETSI EN 300 386 V.1.4.1<br>EN 61000-6-1 / -2 / -3 / -4<br>FCC Part 15 Subpart 109  |
| Environment  | ETSI EN 300 019: 2-1 (Class 1.2), 2-2 (Class 2.3) & 2-3 (Class 3.2)<br>ROHS compliant  |