

## 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 system platform, the Smartpack S finds its way into many space restricted application. Used in the 1U high, 265mm deep power racks, Smartpack S offers comprehensive monitoring and control of a 2-3kW system occupying less than 6 liters.



# SMARTPACK S CONTROLLER

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

Doc 242100.410.DS3 – v2

### 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



1U 50A SYSTEM



1U 100A SYSTEM



3U SYSTEM BULK OUTPUT

### 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)

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		TECHNICAL SPECIFICATIONS
<b>Model</b>	<b>Smartpack S</b>	
Part number	242100.410	
<b>INPUT DATA</b>		
Voltage (nominal)	10 - 75 V <sub>DC</sub>	
Power Consumption, max - no relays energized max - all relays energized	3,1W (display sleep) 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	
<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	
Analog configurations, Inputs #1-4	Analog Voltage[±0 - 10V] ±4-20mA current measurement (through external 470kΩ resistor) Temperature (for NTC probe)	
Analog configurations, Inputs #5-6	Analog Voltage[0-75V] Symmetry measurement	
Output configurations, Outputs #1-6 (alarms)	6x Relay–Dry/Form C Configurable Normally Open/Closed [Max capacity 75V/2A/60W]	
<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 IP protocols: HTTP / SSL, SNMP v3, MODBUS TCP and pComm UDP (PowerSuite)	
Serial port	RS-232 and RS-485 on RJ11 connector Serial protocols: MODBUS RTU, Modem Call-Back/SMS reporting (PSTN or GSM), COMLI, CSCP and pComm (PowerSuite)	
<b>GENERAL SPECIFICATIONS</b>		
Dimensions (WxHxD)	72.2 x 43.0 x 220.7mm (2.8 x 1.7 x 8.7")	
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 EN 61000-6-1 / -2 / -3 / -4 FCC Part 15 Subpart 109	
Marine <sup>*)</sup>	DNV- OS-D202, Ch.2 Sev.4 (DNV 2.4), Temperature Cl. B, Humidity Cl. B, Vibration Cl. A and EMC Class B	
Environment	ETSI EN 300 019: 2-1 (Class 1.2), 2-2 (Class 2.3) & 2-3 (Class 3.2) ROHS compliant	
*) As part of CA0603.000 Flatpack S 3U Marine system		