Compact, rich-featured, hot swap-able, 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 module

For 12V_{DC}, 24V_{DC}, 48 V_{DC} & 60 V_{DC} systems

DOCUMENT NO: 242100.410.DS3 v0B

INDUSTRY APPLICATIONS

Telecom – Mobile / Wireless

- Radio Base stations/ Cell Sites
- LTE / 4G / WiMAX
- Distributed Antenna Systems
- Microwave
- Broadband

Telecom – Fixed

- Telephony servers / switches
- Fiber Optics / FTTx
- Microwave
- Cable
- Broadband

Offshore and process industry

- Safety and Automation Systems (SAS)

Marine

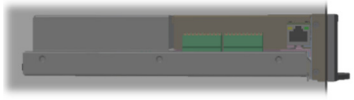
- Communication onboard ships

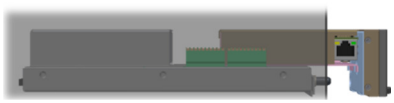
Railway infrastructure

- Control & protection
- Signaling

FPS 1U 2 position rack

FPS 3U 3x2kW bulk out rack





Pull display unit out for front access of Ethernet port.

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 digital programmable relay outputs
- ✓ 6 programmable multipurpose inputs ("digital inputs" or analog signals).
- ✓ Comprehensive logging
- ✓ Automatic battery monitoring and test
- ✓ Battery quality indication (based on test results)
- ✓ Battery used and remaining capacity (Ah or %) monitoring

See reverse side for specifications

Smartpack S controller module

TECHNICAL SPECIFICATIONS

Model	Smartpack S	
Part number	242100.410	
INPUT DATA		
Voltage (nominal)	10 - 75 V_{DC}	
Power Consumption, max - no relays energized max - all relays energized	5 W 6 W	
SYSTEM CONNECTIONS - SYSTEM MONITORS		
Voltage sense, system voltage support	12 V_{DC}, 24V_{DC}, 48V_{DC} & 60V_{DC}	
Current sense, shunt support	0 - 20mV and 0 - 60mV	
Battery fuse monitoring	Voltage Drop Sense or Auxillary switch NO/NC, Pull up/down	
Load fuse monitoring	Auxillary switch NO/NC, Pull up/down or Diode Matrix	
Ground fault detection	Simple bridge circuit detection	
SYSTEM CONNECTIONS - LVD CONTROL		
Battery disconnect	1 (latched or non-latched supported)	
Load disconnect	1 (latched or non-latched supported)	
INPUTS AND OUTPUTS		
Digital configurations, Inputs #1-6	Auxiliary switch: NO/NC, Pull up/down	
Analog configurations, Inputs #1-4	Analog Voltage[0-10V] 4-20mA current measurement (through external resistor) Temperature (NTC probe 470kΩ)	
Analog configurations, Inputs #5-6	Analog Voltage[0-75V] Symmetry measurement	
Output onfigurations, Outputs #1-6 (alarms)	6x Relay–Dry/Form C Configurable Normally Open/Closed [Max capacity 75V/2A/60W]	
USER INTERFACE		
Local	2.2” TFT 32k Colour display QVGA resolution 4 keys	
Ethernet port	10/100 BASE-T HP Auto MDI/MDI-X IP protocols: HTTP / SSL (pending), SNMP v3, MODBUS TCP and pComm UDP (PowerSuite)	
Serial port	RS-232 or RS-485 on RJ11 connector Serial protocols (pending): MODBUS RTU, Modem Call-Back/SMS reporting (PSTN or GSM) and CSCP	
GENERAL SPECIFICATIONS		
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)	
DESIGN STANDARDS		
Electrical safety	UL 60950-1-3rd edition, EN 60950-1-3rd edition	
EMC	ETSI EN 300 386 V.1.4.1 EN 61000-6-1 / -2 / -3 / -4 FCC Part 15 Subpart 109	
Marine*)	DNV- OS-D202, Ch.2 Sev.4 (DNV 2.4), Temperature Cl. B, Humidity Cl. B, Vibration Cl. A and EMC Class B IEC60945	
Environment	ETSI EN 300 019: 2-1 (Class 1.2), 2-2 (Class 2.3) & 2-3 (Class 3.2) ROHS/WEEE compliant	

*) As part of CA0603.000 Flatpack S 3U Marine system