

2U integrated power system

The Flatpack2 2U Integrated has been specifically designed to meet the demand for higher density and more compact power solutions. It is suitable for applications needing an expandable, easily serviceable and reliable power supply, fitting within a minimal space



Flatpack2, 2U Integrated DC Power supply system, 150A

Doc 200010.DS33 – rev7

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



Smartpack R controller



Flatpack 2 48/2000 SHE rectifier

KEY FEATURES

- COMPLETE SYSTEM
- SMARTPACK R CONTROLLER
- ADVANCED CONTROL AND MONITORING THROUGH ETHERNET PORT
- USB TYPE A HOST FOR PLUG-IN DEVICES (EG. WIFI; FLASH DRIVES)
- USB TYPE B FOR CONTROL
- SUPER HIGH EFFICIENCY RECTIFIERS
- HOT PLUGGABLE MODULES
- 2X BATTERY BREAKER POSITIONS
- LVBD (OPTIONAL)
- 6X LOAD MCB DISTRIBUTION
- LVLD (OPTIONAL)
- 2U HEIGHT
- GLOBAL APPROVALS

Flatpack2, 2U Integrated

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MODEL	32A DISTRIBUTION	60A DISTRIBUTION
Part number (Configured Telecom power system)	CTO20402.nnnn	CTO20402.nnnn

INPUT DATA

Voltage (range)	85-300 V _{AC} (HE module) 85-264 V _{AC} (SHE module)
Frequency	45-66 Hz
Mains configuration	Individual ¹⁾ , 1p230V _{AC} TN, 3p400V _{AC} TN, 1p230V _{AC} IT or 3p230V _{AC} IT
Connection	Rear connection on Faston connectors (6.3 mm) ¹⁾ or Terminal blocks, 16 mm ² max

OUTPUT DATA

Voltage	-48 V _{DC}
Current (maximum)	150 A

BATTERY DISTRIBUTION

Number of battery breakers	2x
Battery breaker rating	100 A (maximum)
LVBD	150 A (optional)
Connection	Rear connection on M6 Studs

LOAD DISTRIBUTION

Number of load MCBs	6x	6x
Load MCB rating	2-32 A	2-60 A
LVLD	150 A (optional)	150 A (optional)
Connection	Rear connection on Terminal blocks, 4 mm ² max	Rear connection on Terminal blocks, 10 mm ² max

CONTROL AND MONITORING

Control and Monitoring unit	Smartpack R ³⁾
Inputs	6x Digital inputs (for monitoring of external equipment)
Outputs	6x Alarm relay
Connection	Rear system connection on terminals, 2.5 mm ² max

OTHER SPECIFICATIONS

Insolation	3.0 kV _{AC} – input and output 1.5 kV _{AC} – input earth 0.5 kV _{DC} – output earth
Operating temperature	-40 to +65 °C [-40 to +145 °F]
Storage temperature	-40 to +85 °C [-40 to +185 °F]
Dimensions (W x D x H) ⁴⁾	482 x 370 x 89 mm [19 x 14.9 x 3.5 inch]
Weight (excluding modules)	5 kg [11 lbs]

DESIGN STANDARDS

Electrical safety	IEC/UL 60950-1 CSA 22.2
EMC	ETSI EN 300 386 v1.3.2 EN 61000-6-2 /-3
Environment	ETSI EN 300 019-2-1 (Class 1.2) /-2 (Class 2.3) /-3 (Class 3.2) ETSI EN 300 132-2 Normal operating conditions as per IEC 62040-5-3:2016 clause 4.2. Other operating conditions as per IEC 62040-5-3:2016 clause 4.3, must be advised

1) When system is configured without SPD device option

2) See Flatpack 2 rectifier datasheet for more details

3) See Smartpack R datasheet for more details

4) Recommended minimum cabinet depth is 400 mm [15.7 inch]