

Outdoor power system

The Flatpack2 outdoor power system provides solution for the most outdoor demanding applications with total power output up to 36kW DC load in IP55 enclosure.

The combination of cost-effective design, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability and power output.

Together with our Type 4 enclosure platform it is designed for variety of applications and can be tailored to fit specific need with protection class of IP55.



Flatpack2, Outdoor power system

DC Power supply system, 36kW

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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



Flatpack2 48/3000 SHE rectifier

KEY FEATURES

- COMPLETE OUTDOOR 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
- 8X BATTERY BREAKER POSITIONS
- LVBD
- 16X LOAD MCB POSITIONS
- LVLD (OPTIONAL)
- IP55

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MODEL	36KW
Part number (Configured Telecom power system)	CTO31240.nnnn
POWER MODULE	
Rectifier ¹⁾	Flatpack2 48/3000 SHE
INPUT DATA	
Voltage (range) / Frequency	85-264 V _{AC} / 45-66 Hz
AC Mains input configuration	3p400 V _{AC} TN
Surge protection	SPD Class 2
Connection	Terminal blocks, 35 mm ² max
OUTPUT DATA	
Voltage	-48 V _{DC}
Load current (maximum)	700 A
BATTERY DISTRIBUTION	
Number of battery breaker positions	8x 100 A / 4x 125 A / 4x 200 A / 4x 250 A
LVBD	800 A
LOAD DISTRIBUTION	
Number of load MCBs positions	16x 18 mm (4x 18 mm + 8x 27 mm)
LVLD (Optional)	150 A / 300 A / 500 A / 600 A
Load breaker type	DIN rail mounted, 18 mm and 27 mm wide
CONTROL AND MONITORING	
Control and Monitoring unit ²⁾	Smartpack R
Inputs	6x Digital inputs (for monitoring of external equipment)
Outputs	6x Alarm relays
ENCLOSURE	
Enclosure type ³⁾	Outdoor Type 4
Thermal Management system	Fan and Filter: Dual fan configuration
Finish	Outdoor Polyester coating, Light grey RAL 7035
Ingress protection class	IP55
OTHER SPECIFICATIONS	
Operating temperature	-40 to +45°C [-40 to +113 °F]
Storage temperature	-40 to +85 °C [-40 to +185 °F]
Dimensions (W x D x H)	705 x 831 x 2068 mm [27.8 x 32.7 x 81.4 inch]
Weight (excluding modules)	Approximately 168 kg [370 lbs]
Cable entry	Bottom entry 2x FL-21 cut-outs, with various cable entry glands
Battery trays	Optional battery tray(s) capable of holding a set of batteries up to 280kg
Other general options	Door switch, Heaters, Filter presence & Clogged filter detection, Document folder, Smoke detector, AC service socket, Service light, PC shelf
DESIGN STANDARDS	
Electrical safety	IEC/EN 62368-1
EMC	ETSI EN 300 386 v2.1.1:2016 EN 61000-6-2 /-4
Environment	ETSI EN 300 019-2-1 (Class 1.2) /-2 (Class 2.3) /-3 (Class 4.1E) 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) See Flatpack2 rectifier datasheet for details

2) See Smartpack R controller datasheet for details

3) See Outdoor Type 4 datasheet for details

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Specifications are subject to change without notice