

## FP2 48V/300A 4U distribution

Versatile and powerful solution for any application

The combination of high efficiency, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability. The versatility of the Flatpack2 rectifier in combination with advanced control and monitoring means that it can be used in a wide variety of DC Telecom applications, both for fixed grid and alternative energy across the globe.



FP2 4U distribution with SP2



FP2 4U distribution with SPS

# FP2 48V/300A 4U DISTRIBUTION WITH SMARTPACK2 OR SMARTPACK S

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### APPLICATIONS

#### Wireless, fiber and fixed line communication

Today's communications demand state of the art, efficient and compact DC power systems. Flatpack2 delivers an industry leading power density, efficiency and superb reliability at lowest lifetime cost

#### Broadband and network access

Increasing network speed demands flexible and expandable DC power solutions. The Flatpack2 rectifiers combined with Smartpack2 or Smartpack S controller are your key building blocks for future needs.

#### Small and large

Due to the high power density, cost competitive design and a highly flexible system communication interface, Flatpack2 rectifiers are used in system solutions from 5kW to 288 kW.

### PRODUCT DESCRIPTION

The 4U distribution is designed to meet the demand for compact and flexible DC power solutions. It is based on building blocks and has a variety of configurations depending on power, controller, battery section and load section. Pluggable battery breakers and DIN mounted load breakers ensures easy configurability as well as "in field" replacement. The power system has two controller options, Smartpack2 or Smartpack S which both has all the functionality required in present and future applications.

### HIGHLY CONFIGURABLE

#### Basic system:

- 19"/4U distribution chassis and copper bars
- One FP2 power shelf & Hinged front door with Smartpack2 master or Smartpack S controller
- 4/6 x plug-in battery breaker positions
- 8/6 x 18mm DIN rail breaker positions
- LVBD
- Temperature sensor & Mains input terminals

#### Configurable options

- FP2 power shelf
- Battery breakers: 4 or 6 x 100A positions
- Load breakers: up to 2 x additional sections of 6/4 positions (18/27mm), optional 150A LVLD
- Load breakers: Max 20 x 18mm /
- Blank panel for unused breaker positions
- AC surge protection & Chassis top cover

#### Configurations on request

- 10 battery breaker positions
- 13mm DIN rail load breakers positions (max 26)
- Plug-in load breaker positions (max 10)
- 300A LVLD

# FP2 48/300A INTEGRATED POWER SUPPLY SYSTEM

## AC INPUT

Voltage	<ul style="list-style-type: none"> <li>○ 230 VAC, single phase</li> <li>○ 230 VAC, 3 phase (Δ)</li> <li>○ 230/400VAC, 3 phase (Y)</li> </ul>
Connection	Max 10mm <sup>2</sup>
Frequency	45 to 66Hz
More details	See Flatpack2 rectifier datasheet

## DC OUTPUT

Voltage	-48 VDC
Current	Max. 300A

## BATTERY DISTRIBUTION

LVBD	Default 300A
Breaker (plug-in type)	4 x 100A positions or 6 x 100A positions

## LOAD DISTRIBUTION

DIN mounted breakers	Configurable with all brands, 18mm and 27mm (13mm upon request)
LVLD (optional)	Up to 2 x 150A or 1 x 300A (max 6 x 18mm or 4 x 27mm on each LVLD)

## MONITORING AND CONTROL

Controller option	Smartpack 2 or Smartpack S
Mounting	Door/panel mounted
Local operation	Self-explanatory menu guided operation via touch-pad and graphical colour display
Remote operation	Ethernet for remote/local monitoring and control via WEB Browser
More details	See Smartpack2 / Smartpack S datasheet

## OTHER SPECIFICATIONS

Operating temp.	-40 to +45°C (-40 to +113°F)
Storage temp.	+45 to +70°C (+113 to +158°F) with de-rated performance
Dimensions WxHxD	482 x 380 x 267mm (6U high) 19 x 14.9 x 10.5"
Weight	Recommended cabinet depth is min 400 mm (15.7") Approx. 5kg (11lbs) excl. rectifiers

## APPLICABLE STANDARDS

Electrical safety	IEC 60950-1 UL 60950-1
EMC	<ul style="list-style-type: none"> <li>○ ETSI EN 300 386 V.1.3.2 (telecommunication network)</li> <li>○ EN 61000-6-1 (immunity, light industry)</li> <li>○ EN 61000-6-2 (immunity, industry)</li> <li>○ EN 61000-6-3 (emission, light industry)</li> <li>○ EN 61000-6-4 (emission, industry)</li> </ul>
Environment	ETSI EN 300 019 ETSI EN 300 132-2

## ORDERING INFORMATION

CTO / Creator	
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