

### Flatpack 2 and Powerpack cabinetized

The Large Power System proves that Flatpack2 and Powerpack is the ultimate building block in any telecom application. The combination of a flexible design, power density and reliability makes the Flatpack2 and Powerpack a product family that truly stands outs and provides unparalleled network availability. The versatility of the Flatpack2 and Powerpack rectifier means that it can be used in a wide variety of DC applications across the globe.



### LARGE POWER SYSTEMS, 36 - 288KW

### FLEXIBLE DC DISTRIBUTION CONFIGURATIONS

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#### **APPLICATIONS**

With a broad variety of options, the cabinetized power systems are ideal for applications such as:

- Central office sites
- · Base station control sites
- Data centers
- Other large power demanding sites

Due to the high power density, cost competitive design and a highly flexible system communication interface, Flatpack2 and Powerpack rectifiers are used in system solutions from 2kW to 288kW.

#### PRODUCT DESCRIPTION

The system includes a complete power system with rectifier capacity of up to 2340A pr. cabinet, controller and flexible distribution options, all in one single cabinet.

#### **KEY FEATURES**

The Large Power System can be equipped with either Flatpack2 2kW, Flatpack2 3kW or Powerpack 5800 rectifiers.

MODEL	BASIC QTY OF POWER SHELVES	EXPANDABLE TO
FP2 2Kw	6	9 or 12
FP2 3Kw	3	6 or 9
Powerpack	3	4 or 5

(Table 1: Rectifiers power shelves list)

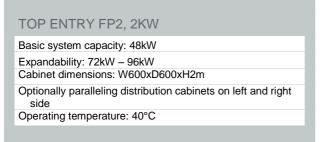
Standard distribution modules are available with the variety of knife fuses and MCBs. A high degree of flexibility makes it easy to meet most customer requirements fast and cost efficient.

### **OPTIONS**

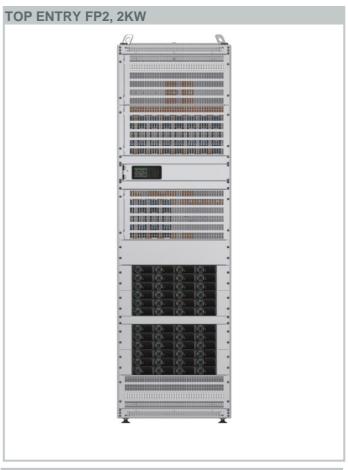
- SYSTEM MONITORING
- FLATPACK 2 MODULES
- POWERPACK MODULES
- FULL HEIGHT LOCKABLE DOOR
- DUMMY PANELS AND UNIT DOORS
- CONFIGURABLE MAINS INPUT
- SURGE PROTECTION DEVICE
- LVBD (LOW VOLTAGE BATTERY DISCONNECTION)
- LVLD (LOW VOLTAGE LOAD DISCONNECTION)
- PARALLELING CABINETS FOR EXPANDED POWER
- PARALLELING CABINETS FOR ADDITIONAL DISTRIBUTIONS
- LIFTING LUGS
- PLINTHS FOR SUFFICIENT CABLING



### FLEXIBLE DC DISTRIBUTION CONFIGURATIONS



Specifications are subject to change without notice



## BOTTOM ENTRY FP2, 2KW Basic system capacity: 48kW Expandability: 72kW – 96kW Cabinet dimensions: W600xD600xH2m Optionally paralleling distribution cabinets on left and right side Operating temperature w/o door: 40°C

Specifications are subject to change without notice

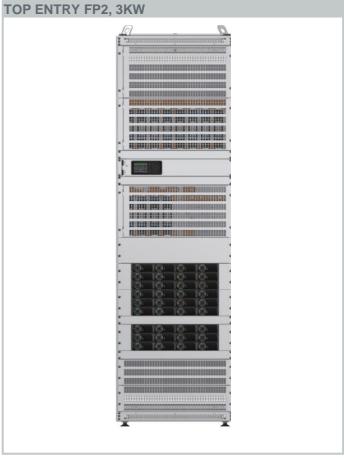




### FLEXIBLE DC DISTRIBUTION CONFIGURATIONS

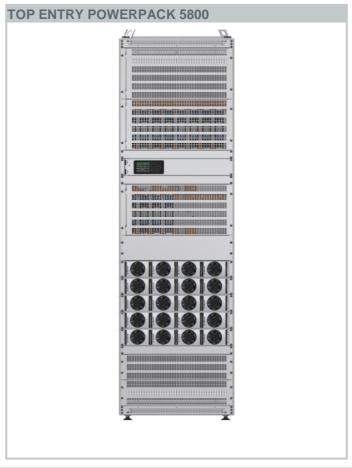
# TOP ENTRY FP2, 3KW Basic system capacity: 36kW Expandability: 72kW – 108kW Cabinet dimensions: W600xD600xH2m Optionally paralleling distribution cabinets on left and right side Operating temperature: 30°C

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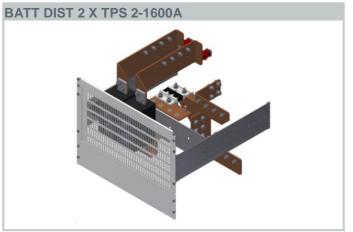
## TOP ENTRY POWERPACK 5800 Basic system capacity: 69.6kW Expandability: 92,8kW – 116kW Cabinet dimensions: W600xD600xH2m Optionally paralleling distribution cabinets on left and right side Operating temperature: 30°C

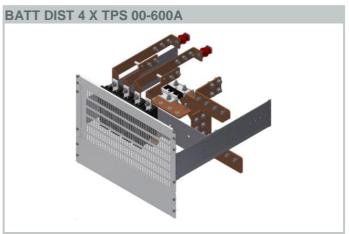
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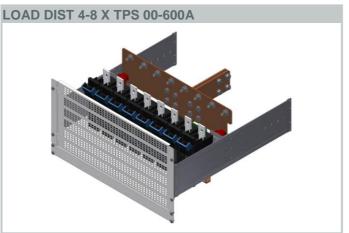




### FLEXIBLE DC DISTRIBUTION CONFIGURATIONS















DC DISTRIBUTION OPTIONS		
BATT DIST 2 x TPS 2-1600A	<ul><li>2 outputs, max 1600A each</li><li>Options</li></ul>	
	<ul><li>Options</li><li>LVBD contactor (1200A or 1800A)</li></ul>	
	o Connection: M10 bolt	
BATT DIST 4 x TPS 00-600A	<ul><li>4 outputs, max 600A each</li><li>Options</li></ul>	
	-LVBD contactor (1200A or 1800A)	
LOAD DIOT 4.0 TD0 00 0004	o Connection: M10 bolt	
LOAD DIST 4-8 x TPS 00-600A	<ul><li>4 outputs, max 600A each</li><li>Options:</li></ul>	
	- Additional 4 outputs, max.600A	
	- LVLD on additional 4 outputs (1200A)  ○ Connection: M10/M12 bolt	
LOAD DIST 30x18mm MCB	o 30 x MCB's (DIN rail mounted, 2-63A)	
	o Connection: Directly in MCB, max 16mm2	
AC INPUT		
Voltage	230 VAC, single phase	
	230 VAC, 3-phase IT network 230/400 VAC, 3-phase TN network	
Additional info	See Flatpack2 – 2kW 48VDC datasheet (241115.001.DS3)	
	See Flatpack2 – 3kW 48VDC datasheet (241119.100.DS3) See Powerpack 48VDC datasheet (241246.500.DS3.DS3)	
MONITORING	See Fowerpack 46VDC datastreet (241246.500.D55.D55)	
Monitoring Unit	See Smartpack (242100.100.DS3) datasheet	
Monitoring Onit	See Smartpack (242100.100.DS3) datasheet See Smartpack2 (242100.50X.DS3) datasheet	
DC OUTPUT PR. CABINET		
Voltage	48 VDC	
Current	Flatpack2 - 2kW: From 3U PR (450A) up to 12U PR (2000A)	
	Flatpack2 – 3kW: From 3U PR (750A) up to 9U PR (2250A) Powerpack: From 3U PR (1404A) up to 5U PR (2340A)	
OTHER SPECIFICATIONS		
Isolation	<ul> <li>3.0 KVAC – input and output</li> </ul>	
	1.5 KVAC – input earth	
Storage temp.	o 0.5 KVDC – output earth -40 to +85°C (-40 to +185°F)	
Weight /2.0m	Appr. 180kg (396,8 lbs) excl. rectifiers	
APPLICABLE STANDARDS	Appl. Tooky (330,0 ibs) excl. rectiliers	
Electrical safety	JEO 000E0 LIL 000E0	
EMC	IEC 60950, UL 60950	
LING	(telecommunication network)	
	o EN 61000-6-3	
	(emission, light industry)  ○ EN 61000-6-2	
	(immunity, industry)	
Environment	Storage: ETS 300 019-2-1 Transport: ETS 300 019-2-2	
	Operation: ETS 300 019-2-3	
ORDERING INFORMATION		
Part No.	Description	
241115.100	Flatpack2 48V/2000	
241115.105	Flatpack2 48V/2000 HE	
241119.903	Flatpack2 48V/3000	
241119.105	Flatpack2 48V/3000 HE	
241246.500	Powerpack 48/5800 208/400/480VAC	
C2xx42.xxxx	Flatpack2(2kW) 48VDC/ 288kW Power Rack Sales configured system	
C3xx42.xxxx	Flatpack2(3kW) 48VDC/ 288kW Power Rack Sales configured system	
CTxx42.xxxx	Powerpack 48VDC/ 288kW Power Rack Sales configured system	

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