



High Efficiency and Front Access in a 2U Format

- Green** >95% typical efficiency utilizing the highly-efficient XPGe12.48 rectifier to save operating costs and reduce carbon footprints.
- Compact** High-density (21.8W/in³) rectifiers with numerous possible configurations up to 4.8kW in a 19 inch/2RU, ETSI-depth rack.
- Connected** State-of-the-art system controller with self-guided operation. Simple Network Management Protocol (SNMP) and web compatible. Sophisticated management features extend the battery life and monitor critical site equipment, such as HVAC and generators.
- Accessible** Slide-out shelf option allows front access for all connections.
- Rugged** Design caters to reliable operation when grid-level power quality supply is unstable.

Description

The Aspiro 2U modular DC rack-mount system offers a compact, user-friendly solution to meet rigid telecom applications combining high reliability with configuration flexibility.

The system is configurable to allow an installed capacity of up to 4.8kW of rectifiers together with DC distribution and a system controller in a 19"/2RU rack system.

Options include battery and load disconnects, AC surge protection, various DC and AC distributions and front connect utilizing the shelf slide-out option.

The Aspiro 2U provides the ideal compact system solution for radio base stations, broadband nodes and core sites.

Mechanical Data

Dimensions	2RU(H) x 19"(W) x 297mm(D)
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Output

Voltage	-48 VDC
Maximum Power	4.8kW
Rectifier Types	Aspiro Series: XPGe12.48 / XR08.48 / XR04.48

DC Distribution

Battery Breakers	2 x Battery Breakers (100 A)
Load Breakers	8 x Load Breakers (1 to 30 A)

AC Input

Voltage	1-phase 110 VAC or 230 VAC (rectifier module dependant) 3-phase 110/190 VAC or 230/400 VAC (rectifier module dependant)
Frequency	47 – 63 Hz
Input Current	<9 A per rectifier
Power Factor	>0.99 (typical)
Surge Protection	Optional

Monitoring and Control

Controller	PCC / ACC
Alarm Relays	Standard 4 alarm relays
Local Interface	4 x 20 LCD, 4 key menu, USB/RS232
Remote Interface	Ethernet/Modem using PowCom™ software package
Visual Indication	Green LED – System ON Yellow LED – Message(s) Red LED – Alarm(s)
External I/O	ACC provides 2 x Digital inputs + 2 x Digital outputs (Open collector)

Battery Management

Symmetry Measurement	Available
Programmable LVD	1 x 125 A
Programmable PLD	1 x 125 A

Connections

Battery Connections	Battery Cable, M8 lugs
AC Connection	6 mm ² (9 AWG)
Load Breaker Connections	Negative termination directly from breakers. Common positive from AKG terminals
Alarm Connections	1.5 mm ² (14 AWG)

Compliance

EMC	ETSI EN 300 386 V.1.4.1 EN 61000-3-2:2006 EN 61000-3-3:1995 + A1:2001 + A2:20005 EN 55022:2006 + A1: 2007 EN 55024:1998 +A1: 2001 +A2:2003
Safety	EN 60950-1 2 nd ed.

Environmental

Operating Temperature	-40°C to +75°C, derating over 55°C
Storage Temperature	-40°C to +85°C

Ordering Information

Description	Aspiro Front Access
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