Aspiro Shelf System

Features

- 1RU and 2RU height solutions

- Wide AC input; 85 to 300VAC

- Wide operating temperature range -40 °C to +75 °C

- Ethernet interface

- Simple installation

- Designed for 300 mm deep ETSI cabinets

- Rear or side cable connection options

- IEC AC socket connection option for Enterprise applications

- MCB or GMT fuse options

- International standards compliance pending

XR04.48 and XR08.48 Rectifier Modules

PCC Supervision Module

Description

Aspiro power systems are a range of solutions catering for the demands of various applications such as broadband access, cable head ends, micro/pico BTS Cells, Enterprise, E911, and GSM-R. Aspiro uses highly-efficient, dense, and reliable XR04.48 & XR08.48 rectifier modules, and is highly-adaptable to provide a complete solution for today's global applications. Its system management is accomplished via a pluggable PCC system controller, complete with optional remote accessing functionality with an Ethernet, web server, and SNMP interface.

Highly-flexible distribution options offer the optimum 1U or 2U shelf solution for space-critical applications. In addition, installation within compact environments is made simple and includes reduced-depth distribution shelves catering for rear or side cable connection.

AC connection options with hardwired or IEC socket connectivity (per rectifier) offer a simple plug and play solution for ease of on-site installation.

System Components

XR04.48/XR08.48 Rectifier Modules

The Aspiro shelf system utilizes plug-in rectifier modules based upon a soft-switching approach. Features include wide input operating range, wide operating temperature, full self-protection and three LEDs for immediate rectifier status indication. Refer to the XR04.48/XR08.48 Rectifier Module data sheet for further information.

Model	Voltage	Power (max)	Current (max)
XR04.48	48 VDC	420 W	9.1 A
XR08.48	48 VDC	837 W	18.2 A

PCC Supervision Module

The PCC Supervision Module is an advanced system supervisor for complete local and remote system monitoring. PCC features include:

- Menu guided operation

- Battery management including battery testing

- Ethernet/web server and SNMP Interface (PCC01)

- Low voltage disconnect

- Hot-pluggable unit

- Temperature compensation

- Symmetry measurement

- User-programmable alarm routing

    Refer to PCC Controller data sheet for further details.

System Components (Continued)

Distribution Modules

The Aspiro power system uses front access fuse distribution modules in order to allow in-service replacement of fuses.

Each distribution module is fitted to system guide runners to allow simple insertion.

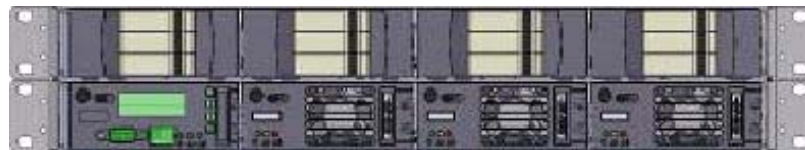The product can be supplied with a variety of MCB or GMT fuse arrangements.

Additional Features

- AC Connection – Rear or side screw terminals or IEC 320 mains connection for simple field installation
- 19" or ETSI mounting available
- Flexible Connection – Rear or side connection of load circuits and ancillary signals
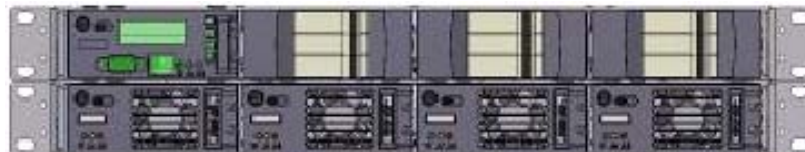
Aspiro Shelf Options

1U Combination Shelf Option (1.6 kW)

2U Shelf Option (2.4 kW)

2U Shelf Option (3.2 kW)

Model

Options	1U Combi-Shelf	2U Power System	2U Power System

Output

Output Power (max. per system)	1.6 kW	2.4 kW	3.2 kW
Rectifier Modules (max. per system)	2x 400 W Rectifier *or* 2x 800 W Rectifier	3x 400 W Rectifier *or* 3x 800 W Rectifier	4x 400 W Rectifier *or* 4x 800 W Rectifier

Input

AC Input Connections (230 VAC)	Single Phase *or* 2x Single Phase	Single Phase *or* 3-Phase	Single Phase *or* 3-Phase

Distribution

Battery MCB	0	1	2	2
Load MCB	5	2	12	9
Load GMT	- - - - - C o n s u l t F a c t o r y - - - - -			

Battery

Low Voltage Battery Disconnect (LVBD)	N/A	Yes	Yes	Yes
Temperature Compensation	N/A	Yes	Yes	Yes
Battery Symmetry Connections	N/A	2	2	2

Mechanical

Dimensions W x H x D (mm)	19"/ETSI x 44.45 x 280	19"/ETSI x 88.9 x 280	19"/ETSI x 88.9 x 280
Mounting	19" / ETSI / MID-MOUNT	19" / ETSI / MID-MOUNT	19" / ETSI / MID-MOUNT
Cable Entry	Rear	Rear	Rear

Options

Ethernet Network Interface	- - - W i t h P C C 0 1 C o n t r o l l e r - - -			
Partial Load Disconnect (PLD)	No	Yes	Yes	Yes