



Protecting Your Network Reliability

- **Powerful** – High density (31.3 W/in³) rectifiers with configurable up to 69.6 kW per cabinet; Maximum 185.6 kW when paralleled.
- **Connected** – State-of-the-art system controller with self-guided operation. SNMP and web compatible.
- **Intelligent** – Sophisticated management features extend the battery life and monitor critical site equipment such as HVAC and generators.
- **Rugged** – Design caters for poor grid quality supply.
- **Hybrid Compatible** – Deployable and upgradable for use in Hybrid Power applications

Description

Guardian Central is designed to meet rigid telecom applications with very high reliability and flexibility for future expansion.

With a compact power and distribution design, the system provides flexibility with a variety of load distribution options covering both fuse and circuit breaker solutions.

The system delivers up to 69.6 kW power per cabinet and can be paralleled to provide 185.6 kW total output power.

Ideal for switch center, central office etc.



Mechanical Data

Dimensions	600 x 600 x 2070 mm (W x D x H)
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Output

Voltage	-48 VDC
Maximum Power	69.6 kW Per Cabinet, Maximum 185.6 kW when paralleled
Rectifier Types	Guardian FMP Series

DC Distribution

Battery Breakers	MCCB : 1 x 1500A; 2 x 600A; 4 x 384A; 2 x 384A Fuses: 3 x NH3; 6 x NH3 (Non-insulated fuse only)
Load Breakers	MCCB: 2 x 600A; 4 x 384A; 2 x 384A MCB: 24 x 4-63A; 16 x 80-125A; 12 x 4-63A+8 x 80-125A Fuses: 8 x NH00; 4 x NH2; 3 x NH3; 6 x NH3 (Non-insulated fuse only)
Load & Battery Distribution	MCCB's: 1 x 1500A battery MCCB+ 1 x 1500A load MCCB. Fuses: 2 xNH3 batt. fuse + 2 x NH2 load fuse; 2 x NH3 batt. fuse + 4 x NH00 load fuse

AC Input

Voltage	2 x 3-phase 230/400 VAC, 3*L + N + PE
Frequency	47 – 63 Hz
Input Current	<18 A per rectifier (FMPe30.48/FMP25.48)
Power Factor	>0.99 (typical)
Surge Protection	Optional

Monitoring and Control

Controller	ACC
Alarm Relays	4 standard, option for up to 10
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	2 x inputs, 2 outputs (open collector)

Battery Management

Symmetry Inputs	Up to 12
Programmable LVD	1 x 1200A (Fuse PBF Only)

Connections

Battery Connections	Battery cable, M12 or M10 lugs (depends on battery breaker module)
AC Connection	35 mm ² (2 AWG)
Load Breaker Connections	Negative termination directly from breakers. Common positive from AKG terminals
Cable Entry	Top Cable Entry or Bottom Cable Entry
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 60950-1:2006

Environmental

Operating Temperature	-40 °C to +50 °C
Storage Temperature	-40 °C to +85 °C

Ordering Information

Model	1-M00029G
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NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc.

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