

## KEYFEATURES

### Rectifier, -48 VDC, 3000 W

- ◆ High efficiency above 96% reduces power consumption for lower operating costs
- ◆ Full power output up to +55°C and continued operation up to +75°C lowers operating cost
- ◆ High power density (39 W/in<sup>3</sup>) – reduced footprint allows installation in short-depth racks and cabinets
- ◆ Wide input voltage range to operate in the most demanding environments
- ◆ Hot pluggable – facilitates future expansions and easy maintenance
- ◆ Compliant with global standards – delivers quality, performance and reliability no matter what the application or location demands

In addition to reducing power consumption and lowering operating cost, high-efficiency rectifiers offer superior performance and uncompromised reliability.

## Description

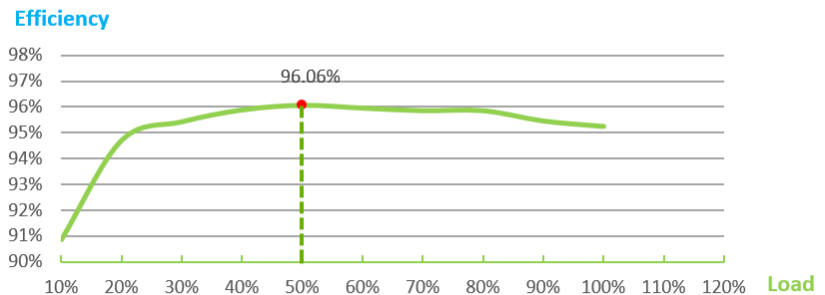
The 3000W high-efficiency rectifier (modelMR483000HG2) is designed to convert standard AC supply voltages into stable nominal -48 V DC voltage that is adjustable to application needs. The MR483000HG2 is a constant power rectifier designed with the latest patented switch mode technology, using DSP (Digital Signaling Processor) functionality for efficiency operation.

This 3000W high density rectifier is ideal for outdoor enclosures and small cell applications where space is at a premium. At 39 W/in<sup>3</sup> and only 286 mm deep, the MR483000HG2 fits into tight spaces where other rectifiers cannot.

For higher load capacities rectifiers can be connected in parallel, and intelligent control can be added with the help of a separate controller.

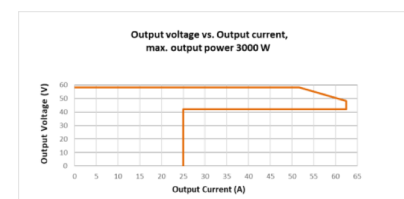
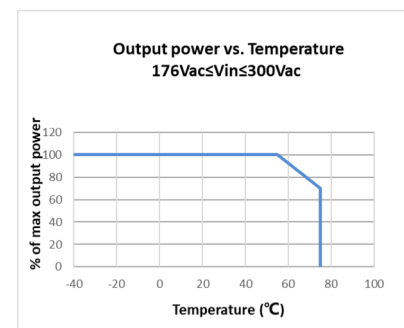
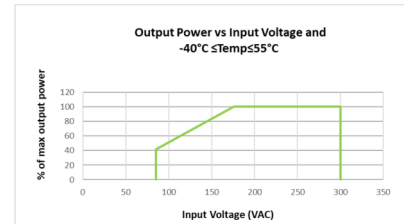


Rectifier Efficiency Curve(240Vac 50Hz)



## Technical Specifications

AC INPUT	
Input Voltage, Nominal	220VAC
Input Voltage, Permitted Variation	85 VAC to 300 VAC
Line Frequency	45 Hz to 65 Hz
Max Input Current	20 A
Power Factor	>0.99
THD (Total Harmonic Distortion)	5% for 50% to 100% load at 208, 220, 230 and 240 VAC
DC OUTPUT	
Output Voltage, Adjustment Range	-42 VDC to -58 VDC
Output Power	3000 W maximum
Output Power, Derated for Input Voltage	See diagram
Output Current	62.5 A @ -48 VDC
Output Current Limit Set Point	0 to 62.5 A
Peak Efficiency	96.2%
CONTROL AND MONITORING	
Rectifier Alarm and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure
ENVIRONMENTAL	
Temperature Range, Operating	-40°C to +75°C (see diagram for derating)
Temperature Range, Storage	-40°C to +70°C
Relative Humidity	0 to 95%
Altitude	2000 m / 6560 ft at full power
EMC	ETSI EN300 386: 2005, Class B. Other than telecom centers. FCC CFR 47 Part 15, Class B conducted and radiated EN55022, Class B conducted and radiated CISPR22, Class B conducted and radiated Telcordia GR-1089-CORE issue 6
ROHS 6, REACH, WEEE	Compliance
Safety	UL 60950-1; EN60950-1; IEC60950
MECHANICS	
Dimensions (H x W x D)	41.5 x 106.5 x 286 (mm)
Weight	≤1.83kg



## Ordering Information

MR483000HG2	
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