

Switch-Mode Rectifiers

CMZ Series

The Magellan Power CMZ Series Rectifier/Charger combine the latest developments in high frequency power supply design with programmable microprocessor technology. Featuring hot plug capability, unity power factor and fast installation the CMZ series offers cost effective, efficient, compact, flexible and intelligent DC power supplies for a variety of industrial applications including telecommunications, DC UPS, automation and marine power supplies.

Product Features

- Hot Plug Capability
- High Reliability
- Unity Power Factor
- High Efficiency
- Wide AC Input Range
- Wide Output Range
- Microprocessor Control
- Fast Installation
- Low In-Rush Current
- Compact and Lightweight
- Easily Expandable
- Load Sharing

Typical Applications

- Wireless/Cellular
- SCADA
- PABX
- DC UPS
- Automation
- Marine power supplies



Technical Specifications

Nominal Voltage	12V	24V	32V	48V	110V	220V
Nominal Current	50A	50A	50A	50A	20A	10A
Module Input Supply	Single phase 165-275V 50Hz \pm 10%					
Output Voltage	11-16V	22-35V	32-43V	44-58V	90-150V	180-270V
Noise and Ripple	<120mV pk/pk	<200mV pk/pk	<200mV pk/pk	<250mV pk/pk	<400mV pk/pk	<700mV pk/pk
Static Voltage Regulation	< \pm 4% for 0-100% load variation, \pm 10% AC input voltage variation and 10% AC input frequency variation					
Dynamic Voltage Regulation	5% for load variation of 10 to 100% or 100% to 10% Settling time of <0.5msec					
Current Regulation	\pm 1%					
Load Sharing Accuracy	\pm 5%					
Insulation	1500V AC Input-Output, Input Case 500V DC Output-Case					
Efficiency	90% at full load					
Power Factor	0.99 to 0.995 measured at full load and 220V input					
Dimensions	214mmH, 129mmW, 320mmD					
Environmental	-10 to +50°C, up to 95% humidity					
Psophometric Noise	2mV: 300Hz - 3400Hz					
Wide Band Noise	50mV: 3.4KHz - 150kHz					
	20mV: 0.15MHz - 30MHz					
MTBF	100,000 Hours					
Protection	HRC input fuse, Output Over Voltage/Under Voltage, Over Temperature, Short Circuit, Input Over Voltage/Under Voltage					
Soft Start	Programmable 3 - 6 seconds current ramp-up					
Audible Noise	< 50 dBA					
Cooling	Forced Air					

