

C&D TECHNOLOGIES

Power Solutions

MODULAR RECTIFIERS

HFM 24 AC 60

For telecommunications applications
24 Vdc, 60 Adc per Rectifier/360 Adc per Shelf



100-7560-24

FEATURES AND BENEFITS

- ± 24 Vdc, 60 Amps, 1,800 Watts
- 0C to +50C Operation
- Near Unity Power Factor
- High Efficiency
- Wide-Range AC Input (105 to 264 Vac)
- Output Current Limit Down to Zero Volts without Operating Protection Devices
- Output Current LED Bar Graph
- Up to 6 Rectifiers in a 23" Shelf (360 Amps)
- Up to 5 Rectifiers in a 19" Shelf (300 Amps)
- LED Indicators (Normal and RFA)
- Alarm Relay Contacts (RFA)
- Forced Load Sharing
- High-Voltage Shutdown Protection
- Remote Restart
- Individual Float and Equalize Settings
- Supports Battery Temperature Compensation
- Remote Equalize Capabilities

DESCRIPTION

C&D TECHNOLOGIES' 24 VOLT, 60 AMP SWITCHMODE MODULAR RECTIFIER combines advanced technology and the same high quality found in all C&D TECHNOLOGIES' products to create a compact, versatile and efficient unit. The small size makes it ideal for economical growth and use in small-to-medium cellular and PCS sites where space is at a premium.

HFM 24 AC 60 SWITCHMODE RECTIFIER

PHYSICAL SPECIFICATIONS

	Rectifier (100-7560-24)	19" Shelf (111-3815-01)	23" Shelf (111-3816-01)
Height	12" (30.5 cm) 7 Rack Spaces	8.75" 7 Rack Spaces	8.75" 7 Rack Spaces
Width	5" (12.7 cm)	19" Rack Mount	23" Rack Mount
Depth	14.5" (36.8 cm)	13.5" (34.3 cm)	13.5" (34.3 cm)
Weight	14 lbs (6.36 kgm)	18 lbs (8.18 kgm)	21 lbs (9.55 kgm)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0C to +50C (32F to +122F)
Storage Temperature	-40C to +85C (-40F to +185F)
Humidity	0% to 95% Noncondensing
Altitude	0% to 7,000 ft. (0 to 2,133 m)
Heat Dissipation	978 BTU/Hr. Maximum @ 60 Amps and 27 Vdc
Cooling	Forced Air
Seismic	BELLCORE Zone 4
Audible Noise	< 65 dBa @ 2 ft. in Front of Plant

ELECTRICAL SPECIFICATIONS

EMI	FCC Part 15, Subpart J for Class A Equipment
Lightning	ANSI/IEEE C62.41C Class B3
Electrical Noise: Voice Band	32 dbrnc
Electrical Noise: Wideband	40 mv rms: DC to 20 MHz
Electrical Noise: Peak-to-Peak	250 mv Peak-to-Peak @ 20 MHz Bandwidth
Connections	DC and AC Connections via Shelf

Alarm Output	Control Inputs
Rectifier Fail Alarm (RFA)	Restart (RS) Equalize (EQ)
Note: Alarm is "Form A" relay-type contact	All control inputs are initiated with a ground closure

POWERCOM DIVISION

1400 UNION MEETING ROAD
P.O. BOX 3053
BLUE BELL, PA 19422-0858
(215) 619-2700 • FAX (215) 619-7899
(800) 543-8630
powercom@cdtechno.com
www.cdpowercom.com

Specifications are subject to change without notice. Contact your nearest C&D sales office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guaranty, warranty, or responsibility of any kind, express or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated, or that other measures may not be required. Unless made explicitly in writing to the customer, C&D makes no representations or warranties regarding whether any product/technology purchased and/or specifications and/or literature regarding same are the most current or advanced version thereof; and C&D assumes no obligation to inform its customers of any revisions and/or improvements to such product, technology, specifications, and/or literature.

Copyright 1999 C&D TECHNOLOGIES, INC.

POWER SPECIFICATIONS

Input Voltage	105 to 264 Vac, Single Phase, 45 to 65 Hz: Auto Ranging
Input Current	20 Amps @ 120 Vac: @ Full Load, 30 Vdc 10 Amps @ 208 Vac: @ Full Load, 30 Vdc 8.5 Amps @ 240 Vac: @ Full Load, 30 Vdc
Output Voltage	Float: 20 to 30.0 Vdc Equalize: 20 to 30.0 Vdc
Output Regulation	+/- 0.5% for 0% to 100% of Full Load within the Specified Input Voltage and Frequency Range
Output Current	60 Amps Max.
Output Max. Power	1,800 Watts: Amps @ -60 Vdc
Current Limit	Fixed at 100% Full Load
Load Share	+/- 10% from 10% to 100% of Full Load Rating
Power Factor	> .99
Efficiency	> 85%

PROTECTION

Input Protection	Fuse in Each AC Input Circuit
Output Protection	Fuse
Output Overvoltage Shutdown	Fixed at 30 Vdc
Turn-On	Soft-Start

AGENCIES

UL/CSA/VDE/ISO 9001

C&D TECHNOLOGIES, INC.