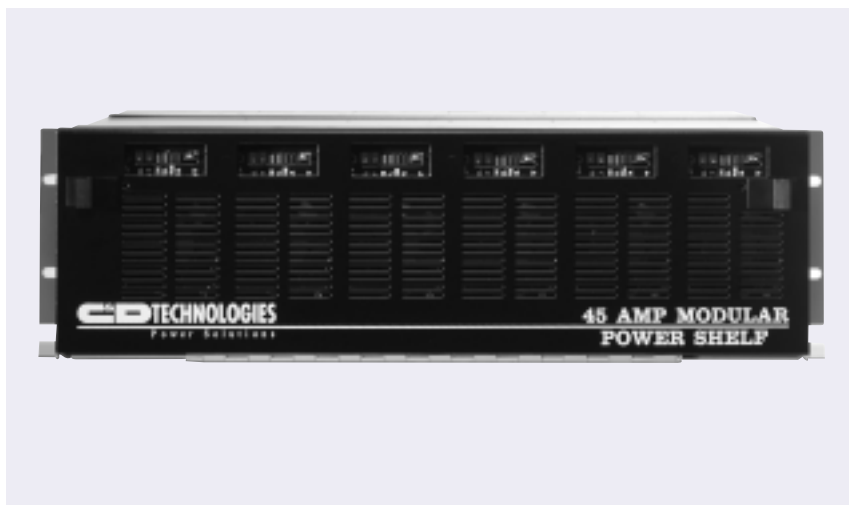


C&D TECHNOLOGIES

Power Solutions

AGM 45

-48 Vdc, 7.5 to 45 Amps
BULK POWER PLANT



BULK POWER
-48 VDC, 45 AMPS

111-3886-00	Dual AC Input Plant
111-3886-01	Single AC Input Plant

CUSTOM
CONFIGURABLE

FEATURES AND BENEFITS

- Configurable from 7.5 to 45 Amps of -48 Vdc power
- Advanced hot-plug HFM48AC7.5 switchmode rectifiers
- Custom-configured power board systems with standard C&D distribution panels
- Stackable design for up to 90 Amps of -48 Vdc power
- Compact size: only 3 rack spaces in 19" or 23" relay rack
- Rear AC and DC power connections
- Single or dual AC line cords
- Individual RFA alarms and coded LED status indicators
- External HVSD/Restart capability

DESCRIPTION

C&D TECHNOLOGIES' AGM 45 Bulk Power Plant is designed to meet the needs of Outside Plant, Fiber, PBX, Microwave and General Broadband applications. Its compact size (**only 3 rack spaces**) is ideally suited for applications where space is at a premium. The Bulk Power Plant can be configured from 7.5 Amps to 45 Amps using the C&D TECHNOLOGIES' -48 Vdc, 7.5 Amp Advanced Switchmode Rectifiers (**HFM48AC7.5**). Utilizing the AGM 45 Bulk Power Plants and over 100 standard C&D power board panels (**meter/alarm, circuit breaker, fuse, LVD, etc.**), a complete Power Board System can be configured to meet virtually any -48 Vdc power requirement up to 90 Amps in the minimum of space.



DC AND AC CONNECTIONS

- Two-hole lug connections for DC power and return connections
 - ◆ Lugs are located such that customer cables can be connected from top, bottom or sides without right-angle bends
- Single or dual AC line cords
 - ◆ Dual line cords permit split AC feeds:
 - Line cord A: feeds AC power to rectifiers 1, 3 and 5
 - Line cord B: feeds AC power to rectifiers 2, 4 and 6

ALARMS AND STATUS

- Four alarm terminal blocks:
 - ◆ ATC ready*
 - ◆ Individual rectifier alarms
 - ◆ Individual rectifier output inhibits*
 - ◆ External high-voltage shutdown*
 - ◆ Equalize*
- Individual rectifier current test jacks

*Requires external controller

AGM 45 PLANT SPECIFICATIONS

PHYSICAL SPECIFICATIONS			
HEIGHT	5.25" (13.34 cm)		
WIDTH	19" or 23" Relay Rack Mount		
DEPTH	14.6" (37.1 cm)		
WEIGHT	23 lbs (10.45 kgm)		
ENVIRONMENTAL SPECIFICATIONS			
OPERATING TEMPERATURE	-40C to +65C (-40F to +149F)		
STORAGE TEMPERATURE	-40C to +85C (-40F to +185F)		
HUMIDITY	0% to 95% Noncondensing		
ALTITUDE	7,000 ft. (2,133 m)		
HEAT DISSIPATION	1,464 BTU/Hr. Maximum @ 45 Amps and 54 Vdc		
COOLING	Convection - Individual Rectifiers		
SEISMIC	BELLCORE Zone 4		
AUDIBLE NOISE	< 62 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		
POWER SPECIFICATIONS			
INPUT VOLTAGE	106-264 Vac, Single Phase, 45-65 Hz: Auto Ranging with Input Current Limiting to Prevent AC Service Circuit Breaker Trip at Extreme AC Line Brownouts (110 Vac or 208/240 Vac Inputs) (Dual AC Line Cords for Redundancy)		
INPUT AC SERVICE CIRCUIT BREAKER REQUIREMENTS	INPUT 110 or 208/240 Vac Dual Feed 208/240 Vac Single Feed	WIRE 10 GA 10 GA	BREAKER 15 Amps 20 Amps
OUTPUT MAX. POWER	2,700 Watts: 45 Amps @ -60 Vdc		
AGENCY LISTINGS	UL / CSA / VDE / CE		

RECTIFIER SPECIFICATIONS (HFM48AC7.5)

PHYSICAL SPECIFICATIONS	
HEIGHT	5.00" (12.7 cm)
WIDTH	2.5" (6.35 cm)
DEPTH	11.0" (27.94 cm)
WEIGHT	3 lbs (1.36 kgm)
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	-40C to +65C (-40F to +149F)
STORAGE TEMPERATURE	-40C to +85C (-40F to +185F)
HUMIDITY	0% to 95% Noncondensing
ALTITUDE	7,000 ft. (2,133 m)
HEAT DISSIPATION	244 BTU/Hr. Maximum @ 7.5 Amps and 54 Vdc
COOLING	Convection - Individual Rectifiers
SEISMIC	BELLCORE Zone 4
AUDIBLE NOISE	< 62 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	All AC and DC Connections are made via the AGM 45 Power Plant (Hot Plug)

POWER SPECIFICATIONS	
INPUT VOLTAGE	106-264 Vac, Single Phase, 45-65 Hz: Auto Ranging with Input Current Limiting to Prevent AC Service Circuit Breaker Trip at Extreme AC Line Brownouts (110 Vac or 208/240 Vac Inputs)
INPUT CURRENT	4.4 Amps @ 120 Vac: @ Full Load, 60 Vdc 2.6 Amps @ 208 Vac: @ Full Load, 60 Vdc 2.3 Amps @ 240 Vac: @ Full Load, 60 Vdc
OUTPUT VOLTAGE	Float: 48 to 56 Vdc Equalize: 48 to 60 Vdc
OUTPUT REGULATION	+/- 0.5% for 0% to 100% of Full Load within the Specified Input Voltage and Frequency Range
OUTPUT CURRENT	7.5 Amps Max.
OUTPUT MAX. POWER	450 Watts: 7.5 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	> 84%
PROTECTION SPECIFICATIONS	
INPUT PROTECTION	Fuse in Each AC Input Circuit
OUTPUT PROTECTION	Diode
OUTPUT OVERVOLTAGE SHUTDOWN	Fixed at 60 Vdc
TURN-ON	Soft-Start
AGENCY LISTINGS	UL / CSA / VDE / CE
CODED LED MESSAGES	
Low Current, Overvoltage, AC Line Low, Over Temperature, Remote Float Control Out of Range, Load Share Out of Range, Thermal Shutdown, Air Flow Low, External High-Voltage Shutdown	

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

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