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- COMPACT & LIGHTWEIGHT PACKAGE
- POWER FACTOR CORRECTED INPUT
- LOW COST MODULAR OEM PLATFORM
- RUGGED IGBT INVERTER DESIGN
- AUXILIARY +24VDC @ 2.2 AMP OUTPUT PROVIDED

www.spellmanhv.com/manuals/CCM

Spellman's CCM capacitor charging module is designed to provide 3100 joules per second at an output voltage up to 4000 Volts. With a power density of 6.6 watts per cubic inch, the CCM packs more than 30% more power into the same volume when compared to other commercially available units. The power factor corrected AC input, small package size and comprehensive analog interface simplifies integrating the CCM into your OEM system design. Available in either positive or negative polarity, the CCM is fully arc, open and short circuit protected.

TYPICAL APPLICATIONS

UV light sources for curing and sterilization Industrial and medical laser applications ICP-MS applications

SPECIFICATIONS

Input Voltage:

180-264 Vac, 47-63 Hertz, power factor corrected input ≥0.98, fused via externally accessible fuses

Efficiency:

>85%

Output Power:

3100 Joules per second, average

Output Voltage:

4000 Volts, maximum

Output Polarity:

Positive or negative, specify at time of order

Pulse to Pulse Repeatability:

±0.6% up to 120 Hertz

Temperature Coefficient:

≤100ppm per degree C

Fault Diagnostic System:

Over Temperature, Over Voltage and Open Load sensing

Environmental:

Temperature Range:
Operating: 0°C to 40°C
Storage: -40°C to 85°C
Humidity:
10% to 90% RH, non-condensing

Cooling:

Forced air

Ground Stud:

M6 X10mm, M6 nut supplied

Input Line Connector:

2 position Phoenix HDFK4 connector

HV Output Connector:

Kings KV-79-15, Bulkhead mounted

+24Vdc Output Connector:

AMP #1-350942-0

Dimensions:

5.81" H X 5.8" W X 14" D (148mm x 147mm x 356mm)

Weight:

14.5lb. (6.6kgs)

Regulatory Approvals:

Compliant to 2004/108/EC, The EMC Directive and 2006/95/EC, The Low Voltage Directive.



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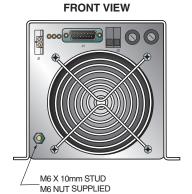
AUXILIARY +24VDC CONNECTOR J2 2 POSITION AMP CONNECTOR

J2	SIGNAL	SIGNAL PARAMETERS
1	+24Vdc	+24Vdc @ 2.2 amps
2	Ground	Ground

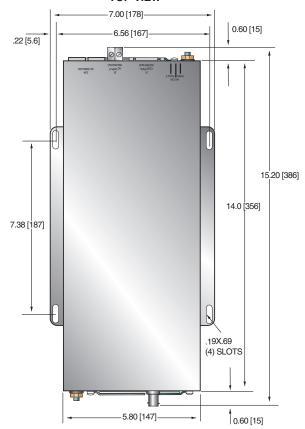
CCM ANALOG INTERFACE— J1 15 PIN FEMALE D CONNECTOR

PIN	SIGNAL	SIGNAL PARAMETERS
1	Inhibit	Ground = HV ON, High = HV OFF
2	Temperature Fault	Ground = No Fault, +15Vdc = Fault +15Vdc through 6.8kΩ
3	General Fault	Ground = No Fault, +15Vdc = Fault +15Vdc through 6.8kΩ
4	HV ON Indicator	Ground = HV ON, +15Vdc = HV OFF +15Vdc through $6.8k\Omega$
5	Voltage Program	0 to 10Vdc = 0 to 100% Rated Output
6	Open Circuit Detector	Ground = Open Circuit, +15Vdc = OK +15Vdc through 6.8kΩ
7	Peak Voltage Monitor	0 to 10Vdc = 0 to 100% Rated Output held for 10 seconds at peak level
8	Voltage Monitor	0 to 10Vdc = 0 to 100% Rated Output, Instantaneous output
9	+15Vdc Output	+15Vdc @ 150ma output, maximum
10	n/c	n/c
11	+15Vdc Output	+15Vdc @ 150ma output, maximum
12	+15Vdc Output	+15Vdc @ 150ma output, maximum
13	End of charge Indicator	Ground = End of Charge, High Impedance = Charging
14	Ground	Ground
15	Ground	Ground

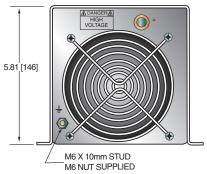
DIMENSIONS: in.[mm]



TOP VIEW



BACK VIEW



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For locations worldwide www.spellmanhv.com

128054-001 REV. G

Spellman High Voltage is an ISO 9001:2008 and ISO 14001:2004 registered company