

REV: 101619

Rectifier Module
48VDC / 7kW

PRODUCT FEATURES:

- **7KW Rectifier Module**
- **Output : +48VDC**
- **3-Phase 380V Delta AC input**
- **High Efficiency Operation (Up to 93%)**
- **LED Alarm Indicators**



INPUT SPECIFICATIONS:

VOLTAGE	3-phase Delta (380~480VAC, Rated) AC full range (limits): 361~504VAC
FREQUENCY	50 ~ 60Hz
INRUSH CURRENT	<30A@480VAC (one cycle, 25°C) 23A, typical @ 440VAC
INPUT CURRENT	15A@380VAC (Per phase, Full Load)
PROTECTION	Per phase: 25A Fuse / 500V Rated
LEAKAGE CURRENT	≤7mA@400VAC
INPUT PROTECTION	Input Undervoltage / Overvoltage Lockout
EFFICIENCY	93% (440VAC, Full load); 90% (380VAC)
POWER FACTOR	0.99 typical @ 440VAC

OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	+48VDC
OUTPUT CURRENT	145 Amps
OUTPUT ADJUSTMENT	45.6VDC ~ 50.4VDC
LINE REGULATION	1% max
LOAD REGULATION	1% max
RIPPLE VOLTAGE	1%p-p, max (20MHz Bandwidth)
OCP	148A ~ 156A (Latching)
OVP	55.2VDC ~ 60VDC (Latching – Recycle AC to reset)

OUTPUT INTERLOCK/INHIBIT:

SIGNAL (DB9)	Vendor supplies 26-pin DSUB mating plug (dongle) -required for module to start (see details on next pages)
DEBUG PORT	Vendor supplies Debug cable and GUI file for local monitoring (details on next pages)
LED INDICATORS	AC Good, DC Good; Alarms for AC, DC, and OverTemp (details on next pages)

GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	0°C to +70°C (derates 1.67%/°C above +40°C)
STORAGE TEMPERATURE	-40°C ~ +85°C
OPERATING HUMIDITY	10% ~ 95% (Non-Condensing)
STORAGE HUMIDITY	5% ~ 95% (Non-Condensing)
COOLING	Internal Fan (Forced Air Convection)
ALTITUDE	Up to 2000 meters
VIBRATION	10-55Hz, 1G, 3Min Period, 60 min each (3 axes)
SHOCK	20G Peak Acceleration
WEIGHT	23.6 lb (10.7 kg)
SIZE (inches)	17 x 7 x 6 (L x H x W)

EMISSIONS:

EMISSIONS	IEC EN 61000-6-4
ELECTROSTATIC -DISCHARGE	EN61000-4-2, level4 8KV
RADIATED SUSCEPTIBILITY	EN61000-4-3, level3 10V/M
EFT/BURSTS	EN61000-4-4, level4 ±4KV
SURGES	EN61000-4-5, 3KV Earth, 4KV Line-Line
LEAKAGE CURRENT (limits)	EN60950, at 400VAC, 60Hz 7mA at 480VAC, 60Hz 10mA

STANDARDS & APPROVALS:

UL/CUL	60950-1
CE MARK	Low Voltage Directive



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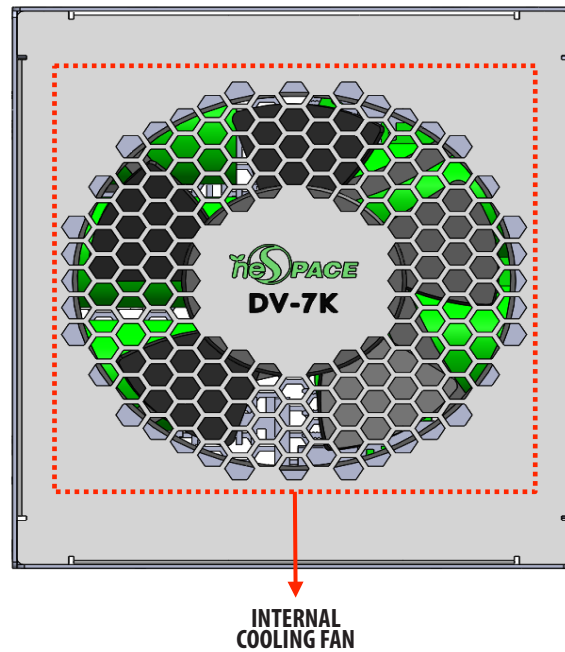
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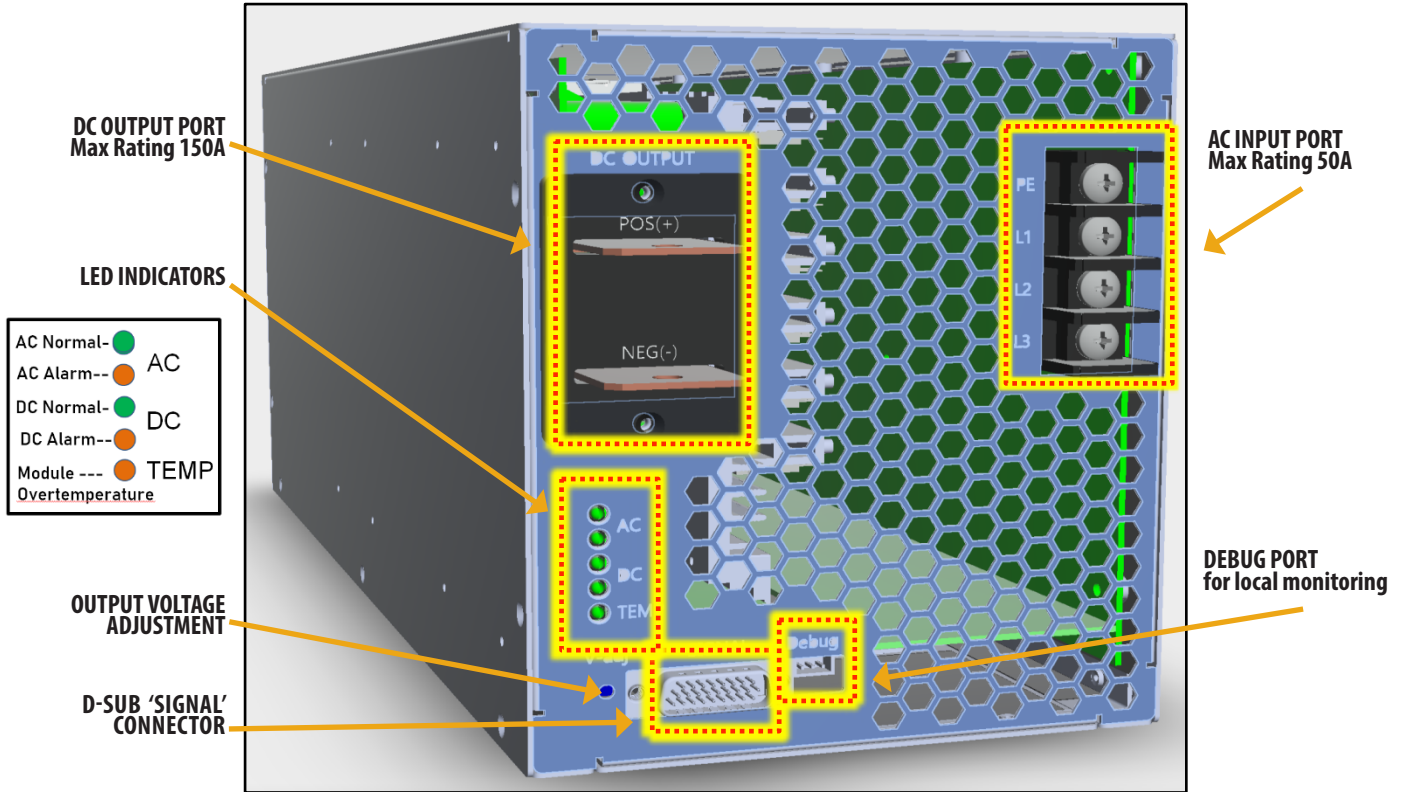
DV-7K (Module)

the
POWER
you need

FRONT VIEW:



REAR VIEW:



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SIGNAL (D-SUB MATING CONNECTOR) - OUTPUT INTERLOCK / INHIBIT

FOR THE DV-7K POWER MODULE TO OPERATE:

Output Interlock (pin 5) and Output Inhibit (pin 25) may either be actively pulled low (see Note 1) OR tied directly to Logic Ground (pin 9),

Dongah Elecomm provides a D-Sub mating connector that directly shorts Pin 5 & Pin 25 to Logic Ground (Pin 9).

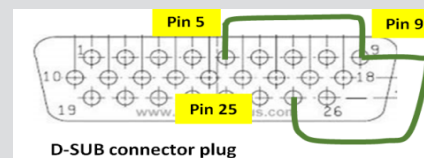
The D-Sub mating connector must be plugged into the "SIGNAL" connector for the DV-7K module to operate.

Pin 5: Output Interlock / **Pin 25:** Output Inhibit / **Pin 9:** Logic Ground

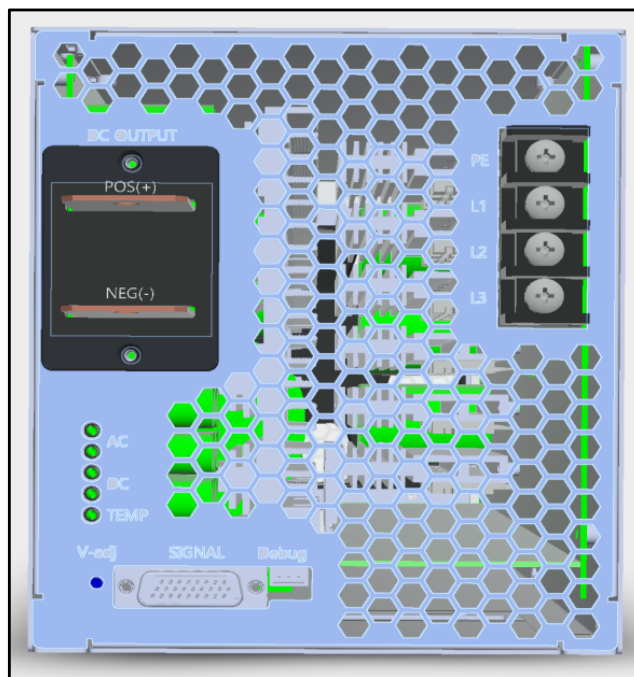
MATING CONNECTOR PARTS (OR EQUIVALENT):

Shell: AMP part# 748365-1

Contacts: AMP part# 748333-1



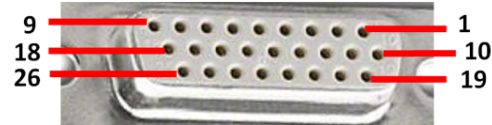
REAR VIEW:



D-SUB MATING CONNECTOR



Pinout for 26-pin D-SUB connector



AMP PART# 749030-1 OR EQUIVALENT



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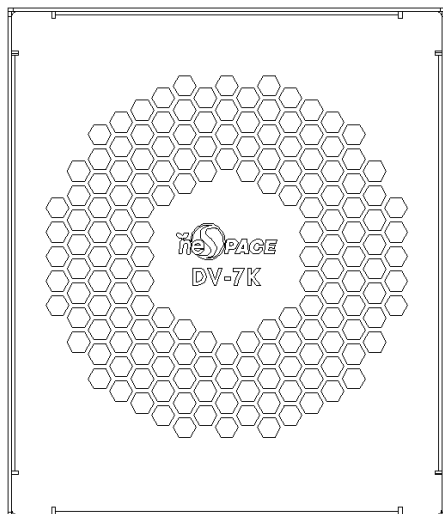
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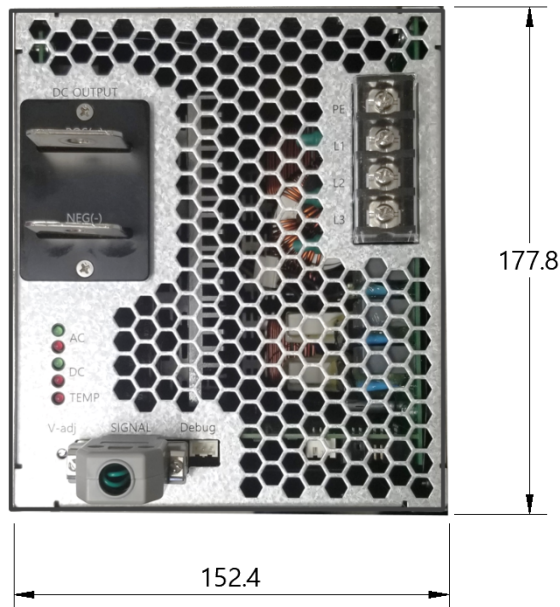
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CONFIGURATION:

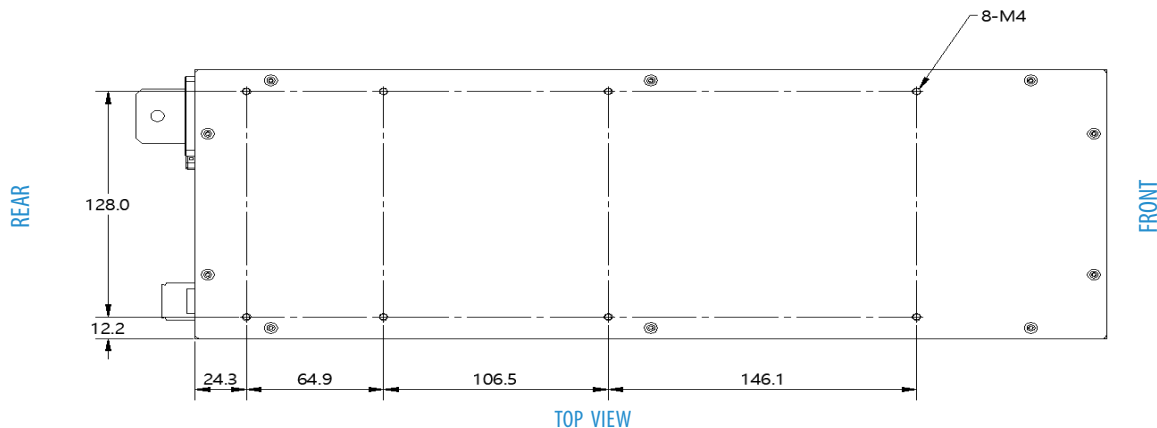


FRONT VIEW

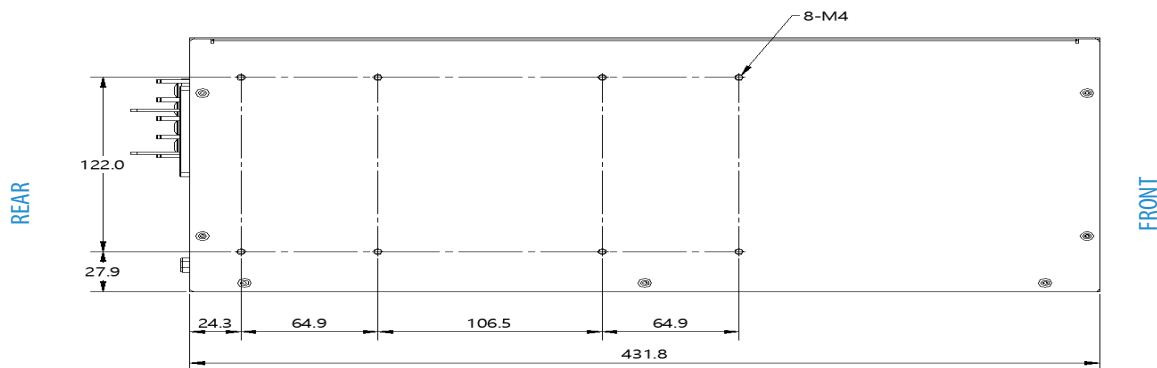


REAR VIEW
(with D-Sub connector attached)

MODULE DIMENSIONS (MEASUREMENT UNITS IN MM):



TOP VIEW



SIDE VIEW

