



INSTALLATION INSTRUCTIONS

MAP40-1005 and MAP55 Power Supply Series

AC INPUT: 100-240 VAC, 2A
50/60 Hz

(Input selection is automatic; no manual change is required.)

SAFETY APPROVALS: UL Recognized to UL60950: CSA 22.2 No. 60950-00 (cUL), TUV approved to EN60950: 2000, and IEC60950: 1999.

INPUT CONNECTIONS: TB1, PIN 1...Safety Earth Ground ; PIN 2...N (Neutral); PIN 3...L (Line)

OUTPUTS:

MODEL\OUTPUT	V1	V2	V3	V4	COM
MAP40-1005	5V*/8A-11Apk	N/A	N/A	N/A	COM
MAP55-1012	12V*/5A-5.8Apk or 15V*/4A-4.7Apk	N/A	N/A	N/A	COM
MAP55-1024	24V*/2.5A-2.9Apk or 28V*/2.2A-2.5Apk	N/A	N/A	N/A	COM
MAP55-4000**	+5V/6A-8Apk	+12V/3A-5Apk	-5V/1.0A	-12V/1.0A	COM
MAP55-4001**	+5V/6A-8Apk	+24V/1.5A-2.5Apk	-12V/1.0A	+12V/1.0A	COM
MAP55-4002**	+5V/6A-8Apk	+12V/3A-5Apk	-12V/1.0A	+12V/1.0A	COM
MAP55-4003**	+5V/6A-8Apk	+15V/2.5A-3.5Apk	-5V/1.0A	-15V/1.0A	COM
MAP55-4004**	+5V/6A-8Apk	+24V/1.5A-2.5Apk	-15V/1.0A	+15V/1.0A	COM

* Isolated outputs can be referenced as positive (+) or negative (-).

** Maximum combined output load for V3 + V4 = 1A.

released
uncontrolled

- CAUTIONS & NOTES -

CAUTION: These component level power supplies are intended exclusively for installation within other equipment by an industrial assembly operation or by professional installers. These are Class I power supplies; the chassis must be properly connected to earth ground in end use. Component power supplies are to be installed in end-use equipment according to the requirements of the safety standard used for that equipment. These power supplies are not designed to be operated outside of an enclosure which provides a means of mechanical, electrical, and fire protection. To maintain SELV requirements, the outputs should not be connected together in any manner which causes the total output voltage to exceed 60 VDC.

MAXIMUM OUTPUT RATING:

POWER/MODEL	MULTIPLE	MAP40-1005	MAP55-1012	MAP55-1024
Convection Continuous/Peak ²	45W ¹ / 65W	40W / 55W	50W / 70W	50W / 70W
Forced-Air ³ Continuous/Peak ²	55W / 65W	N/A	60W / 70W	60W / 70W

Notes:

- 1) Maximum total output power of 45W @ 40°C ambient operating temperature for models without a cover and 40W for models with a cover.
- 2) Peak ratings for 60-second maximum duration up to a 10% duty cycle.
- 3) 200 LFM forced-air cooling is required across the multiple-output power supply for use at full rated load above 25°C. 150 LFM forced-air cooling is required for single-output models.

MINIMUM LOAD: The following minimum loads are required to maintain output regulation. MAP40-1005 and all multiple output models: 0.5A minimum load required on the main output, V1. MAP55-1012: 0.21A minimum load required. MAP55-1024: 0.11A minimum load required.

PROTECTIVE EARTHING: The Power Supply must be properly grounded to mains protective earthing termination at end use.

ENVIRONMENTAL CONDITIONS:

TRANSPORTATION & STORAGE:

Ambient Temperature Range: - 40°C to +85°C
Relative Humidity Range: 10% to 100% Including Condensing
Atmospheric Pressure Range: 0.69 to 1.06 atm

OPERATION:

Ambient Temperature Range: 0°C to +50°C
Relative Humidity Range: 5% to 95% Non-condensing
Atmospheric Pressure Range: 0.69 to 1.06 atm

FUSING: Power Supply is protected by a T2A, 250V internal fuse. In case of failure, the Power Supply must be returned to a Power-One Authorized Service Center. There are no user-serviceable parts in the Power Supply.

LIMITED WARRANTY: Power-One warrants each power supply of its manufacture for a period of two (2) years from the date of original shipment. This warranty applies to defects in materials and workmanship that result in non-performance to published specifications. The product(s) must be returned to our Camarillo, CA facility by prepaid freight for repair with a Power-One pre-assigned RMA number.

Power-One assumes no liabilities for consequential damages of any kind through the use or misuse of its products by any user. No other obligations are expressed or implied.

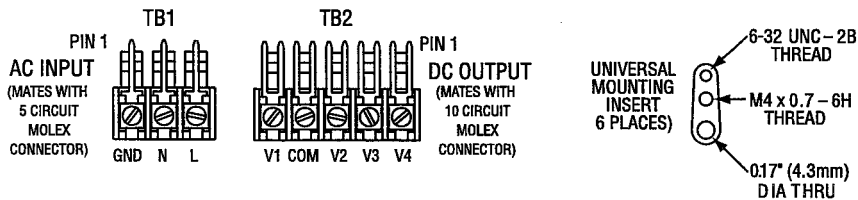
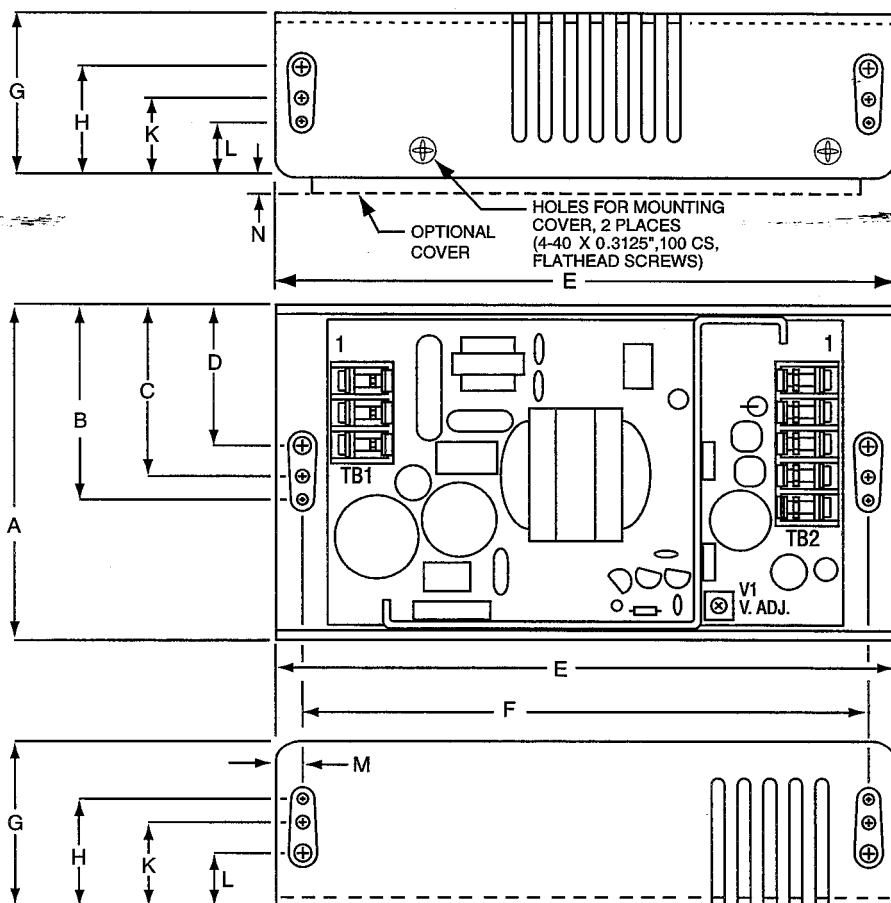
Please note that the specifications, terms, and conditions stated are subject to change without notice.

Additional application information is available from the Power-One web site at www.power-one.com.

Power-One • 740 CALLE PLANO • CAMARILLO, CA 93012-9951 • PHONE: (805) 987-8741

P.O. BOX ACKERSTRASSE 56 • CH-8610, USTER, SWITZERLAND • PHONE: (41) 1 944 8383

MAP40-1005 and MAP55 Power Supply Series



OVERALL SIZE: 6.00" (152.4mm) x 3.27" (83.1mm) x 1.60" (40.6mm)

WEIGHT: 1.1 lb (0.55 kg)

TOLERANCES:
.XX = 0.03" (0.8mm)
.XXX = 0.010" (0.3mm)

INPUT & OUTPUT CONNECTIONS: 6-32 screw wire clamps on 0.312" (7.92mm) centers; 0.045" (1.14mm) square pins on 0.156" (3.4mm) centers; mates with Molex Series 2139, 6442, or 41695.

CHASSIS: 0.090" (2.3mm) aluminum alloy, with clear anodized finish.

Callout	Inches	Millimeters
A	3.27	83.1
B	1.900	48.26
C	1.672	42.47
D	1.370	34.8
E	6.00	152.4
F	5.500	139.7
G	1.60	40.6
H	1.065	27.05
K	0.837	21.26
L	0.535	13.59
M	0.25	6.35
N	0.2	5.1

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