

Model Number	Description	Voltage	Max. Load (Convection) (112.5W) @50°C	Max. Load (Convection) (120W) @40°C	Max. Load (13 CFM)	Min. Load	Ripple ¹	Signal
MULP180-1012	with Screw Terminal	12 V	9.37A	10.00A	15.00A	0.0 A	2%	N.A
MULP180-1312	with Molex Connector	12 V	9.37A	10.00A	15.00A	0.0 A	2%	N.A
MULP180-1015	with Screw Terminal	15 V	7.50A	8.00A	12.00A	0.0 A	2%	N.A
MULP180-1315	with Molex Connector	15 V	7.50A	8.00A	12.00A	0.0 A	2%	N.A
MULP180-1024	with Screw Terminal	24 V	4.68A	5.00A	7.50A	0.0 A	1%	N.A
MULP180-1324	with Molex Connector	24 V	4.68A	5.00A	7.50A	0.0 A	1%	N.A
MULP180-1030	with Screw Terminal	30 V	3.75A	4.00A	6.00A	0.0 A	1%	N.A
MULP180-1330	with Molex Connector	30 V	3.75A	4.00A	6.00A	0.0 A	1%	N.A
MULP180-1048	with Screw Terminal	48 V	2.34A	2.50A	3.75A	0.0 A	1%	N.A
MULP180-1348	with Molex Connector	48 V	2.34A	2.50A	3.75A	0.0 A	1%	N.A
MULP180-1058	with Screw Terminal	58 V	1.94A	2.07A	3.10A	0.0 A	1%	N.A
MULP180-1358	with Molex Connector	58 V	1.94A	2.07A	3.10A	0.0 A	1%	N.A
ULP180-CK metal cover kit accessory								
MULP180-0012	with Screw Terminal	12 V	9.37A	10.00A	15.00A	0.0 A	2%	PG & AC PF
MULP180-0312	with Molex Connector	12 V	9.37A	10.00A	15.00A	0.0 A	2%	PG & AC PF
MULP180-0015	with Screw Terminal	15 V	7.50A	8.00A	12.00A	0.0 A	2%	PG & AC PF
MULP180-0315	with Molex Connector	15 V	7.50A	8.00A	12.00A	0.0 A	2%	PG & AC PF
MULP180-0024	with Screw Terminal	24 V	4.68A	5.00A	7.50A	0.0 A	1%	PG & AC PF
MULP180-0324	with Molex Connector	24 V	4.68A	5.00A	7.50A	0.0 A	1%	PG & AC PF
MULP180-0030	with Screw Terminal	30 V	3.75A	4.00A	6.00A	0.0 A	1%	PG & AC PF
MULP180-0330	with Molex Connector	30 V	3.75A	4.00A	6.00A	0.0 A	1%	PG & AC PF
MULP180-0048	with Screw Terminal	48 V	2.34A	2.50A	3.75A	0.0 A	1%	PG & AC PF
MULP180-0348	with Molex Connector	48 V	2.34A	2.50A	3.75A	0.0 A	1%	PG & AC PF
MULP180-0058	with Screw Terminal	58 V	1.94A	2.07A	3.10A	0.0 A	1%	PG & AC PF
MULP180-0358	with Molex Connector	58 V	1.94A	2.07A	3.10A	0.0 A	1%	PG & AC PF
ULP180-CKP metal cover kit accessory								

Connectors		
J1	Pin 1	AC LINE
	Pin 2	NOT FITTED
	Pin 3	AC NEUTRAL
J2 Option 1 & 2	Pin 1,2,3	V1 +VE
	Pin 4,5,6	V1 -VE
J3	Pin 1	FAN +VE
	Pin 2	FAN -VE
J4 (For PGPF Option Only)	Pin 1	Vs
	Pin 2	PGPF
	Pin 3	GND



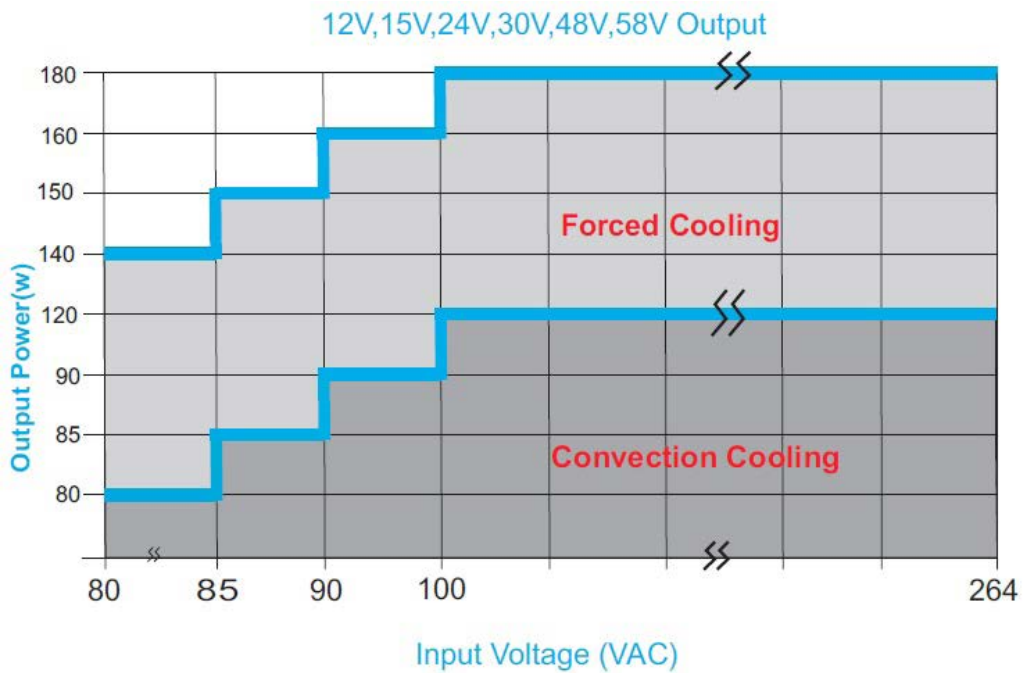
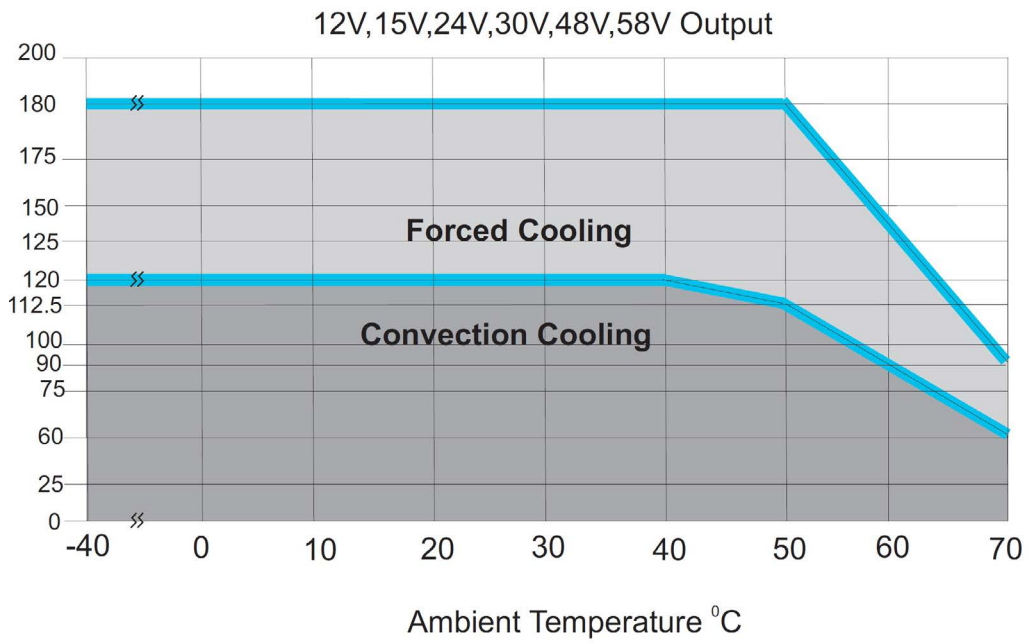
Innovations in Power

Notes

1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
2. Class II means without input Earth pin.
3. Combined output power of main output, fan supply shall not exceed max. Power rating.
4. Fan supply output voltage tolerance including set point accuracy, line and load regulation is +/-10% and Ripple and noise is less than 10%.
5. Specifications are for nominal input voltage, 25°C unless otherwise stated.
6. 180W with 13CFM forced air cooling and 120W with natural convection cooling at 100 to 264VAC.
7. -40 to 0°C startup is guaranteed with spec deviation in output ripple and voltage regulation.

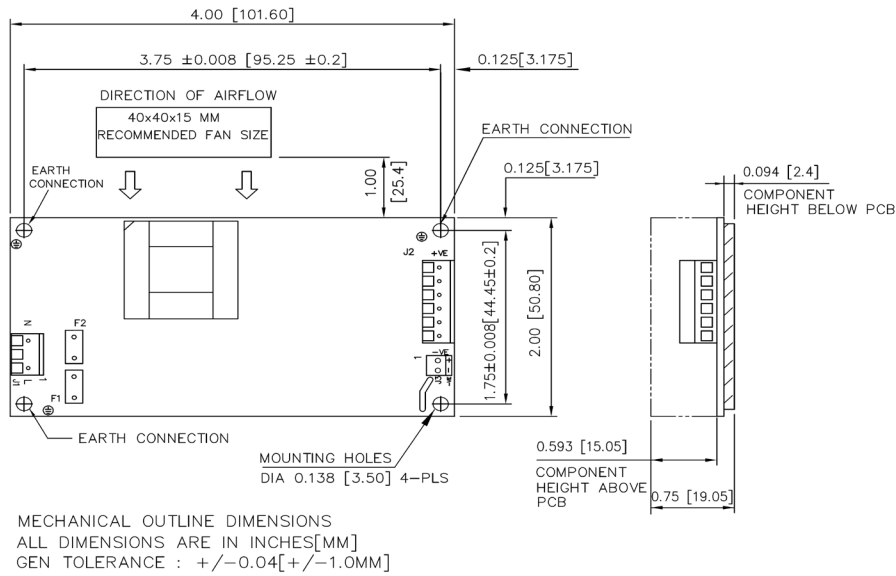
Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 Mating: 09-50-3031; Pins: 08-50-0106
DC Output Connector (J2) Option 1 (Screw Terminal)	Molex: 39357 Series or equivalent
DC Output Connector (J2) Option 2 (Molex Connector)	Molex: 26-60-4060 Mating: 09-50-3061; Pins: 08-50-0106
Aux (Fan) Output(J3)	AMP :640456-2 Mating: 640440-2
Signal Output (J4)	AMP :640456-3 Mating: 640440-3
Dimensions	4 x 2 x 0.75 inches (101.60 x 50.8x 19.05 mm)
Weight	200 gm approx
EMC	
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15-B
Static Discharge	EN61000-4-2, Level-4
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	Level A radiated, Level B radiated with external core (King core K5B RC 25x12x15-M in input cable (5 turns))
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class D
Safety	
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1
Approval Agency	Nemko, UL, C-UL
Safety File Number(s)	Class-I : UL: E173812,VOL D1, Nemko: Certificate No: P16221541, CB Test Certificate No : N094796 Class-II : UL: E173812,VOL D1, NEMKO: Certificate No: P16221548, CB Test Certificate No: N094850

Derating Curve



Mechanical Drawing

Option 1 (Without PGPF)

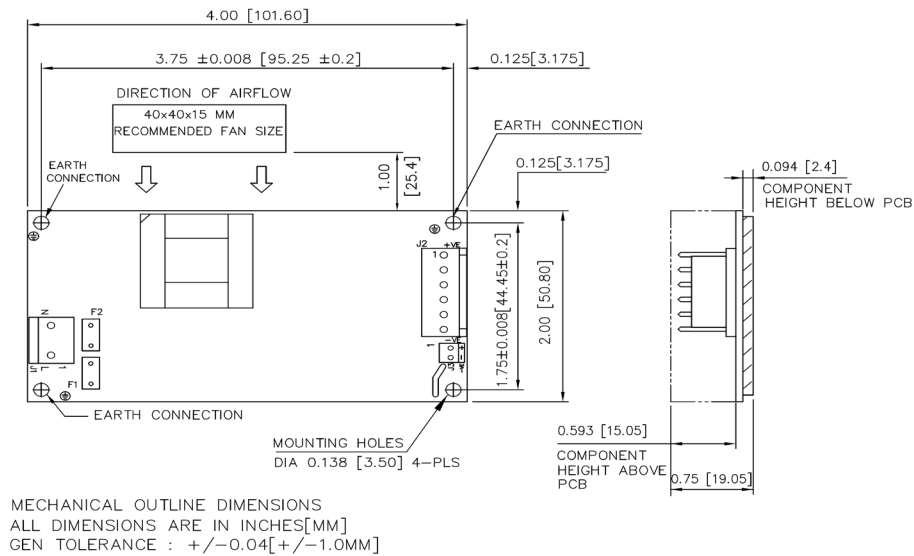


Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

1. Stand off, used to mount PCB has OD of 5.4 mm max.
2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
3. Washer, if used, to have dia of 6.5 mm max.

Mechanical Drawing

Option 2 (Without PGPF)

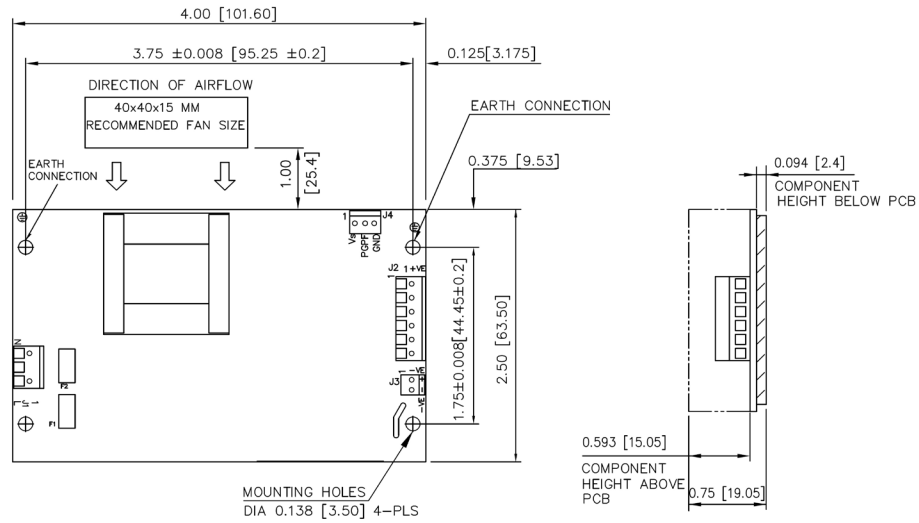


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Mechanical Drawing

Option 3 (With PGPF)



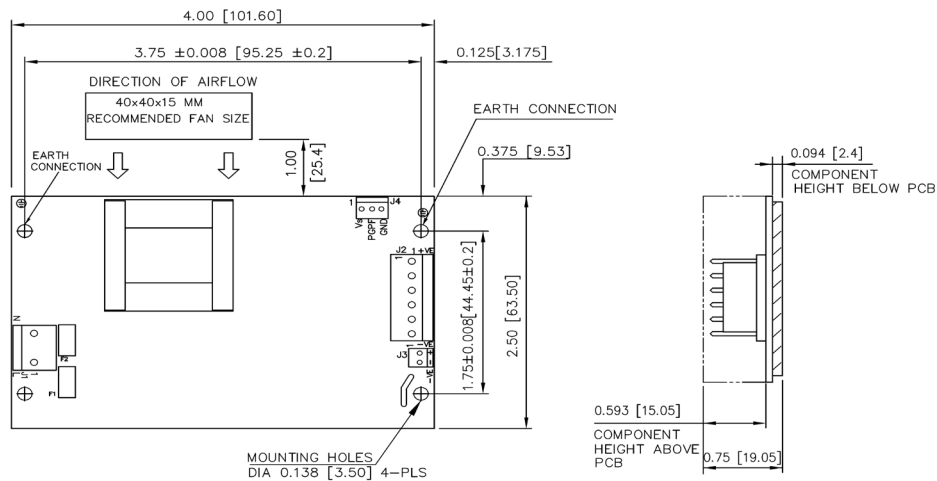
MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE : +/-0.04[+/-1.0MM]

Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

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Mechanical Drawing

Option 4 (With PGPF)



MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE : +/-0.04[+/-1.0MM]

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1. Stand off, used to mount PCB has OD of 5.4 mm max.
2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
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