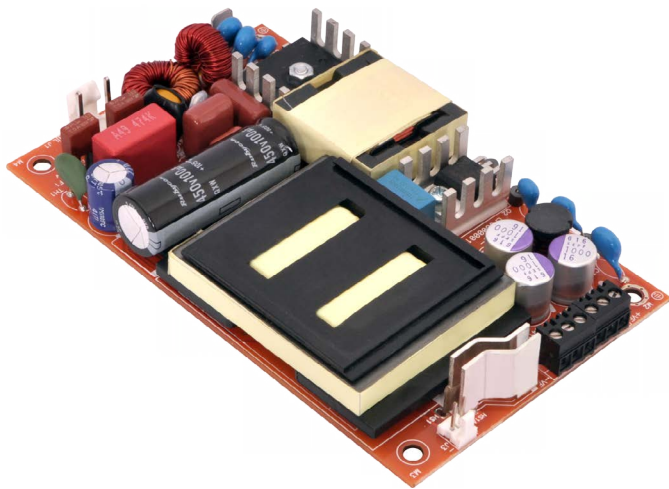


275 Watt Industrial



Features

- 5 x 3 x 0.75 Inches Form factor
- 275 Watts with Forced Air Cooling
- Efficiencies upto 92%
- -40 to 70 degree operating temperature*
- 12V / 0.5A Fan Output, Thermal Shut-Down feature
- 3.37m Hours, Telcordia -SR332-issue 3 MTBF
- Standby Power < 0.5W

Electrical Specifications

Input Voltage	80-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 72% for Forced Cooling and 69% for Convection Cooling at 80V AC)	
Input Frequency	47-63 Hz	
Input Current	115 VAC: 2.6 A max.	230 VAC: 1.3 A max.
No Load Power	<0.5W typical for ULP275-1XXX and <0.85W typical for ULP275-1XXX-PGPF	
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A	
Leakage Current	300 uA Typical, (N.A. For Class II Option)	Touch current <100uA
Efficiency	92%(48V,58V), 90%(24V,30V), 88%(12V,15V)	
Hold-up Time	at 275W:8 ms ; 160W: 16 ms	
Power Factor	excess 0.95 with Full Load	
Output Power	275W with 13 CFM, upto 160W Convection	
Line Regulation	+/-0.5%	
Load Regulation	+/-1%	
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% , recovery time < 5 ms	
Rise Time	55ms typical	
Set Point Tolerance	+/-1%	
Over Current Protection	>110%	
Over Voltage Protection	110 to 140%	
Short Circuit Protection	Hiccup mode	
Switching Frequency	PFC – 70 to 130 KHz ,PWM – 50-80 KHz	
Operating Temperature ⁷	-40 to +70°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5% to 95%, noncondensing	
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.	
MTBF	3.37m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Input to Output – 3000V AC for ITE application and 4245 VAC for medical applicatons Input to GND - 1500 VAC (Not Applicable For Class II Option)	
Cooling	275W with 13 CFM forced air cooling ⁶ (refer Mechanical Drawing) upto 160 W with natural convection cooling ⁶ (refer Derating Curve)	

Model Number	Description	Voltage	Max. Load (Convection) (152W) @50°C	Max. Load (Convection) (160W) @40°C	Max. Load (13 CFM)	Min. Load	Ripple ¹	Signals
ULP275-1012	with Screw Terminal	12 V	12.50A	13.33A	20.83A	0.0 A	2%	N.A
ULP275-1312	with Molex Connector	12 V	12.50A	13.33A	20.83A	0.0 A	2%	N.A
ULP275-1015	with Screw Terminal	15 V	10.00A	10.66A	16.67A	0.0 A	2%	N.A
ULP275-1315	with Molex Connector	15 V	10.00A	10.66A	16.67A	0.0 A	2%	N.A
ULP275-1024	with Screw Terminal	24 V	6.25A	6.67A	10.41A	0.0 A	1%	N.A
ULP275-1324	with Molex Connector	24 V	6.25A	6.67A	10.41A	0.0 A	1%	N.A
ULP275-1030	with Screw Terminal	30 V	5.00A	5.33A	8.33A	0.0 A	1%	N.A
ULP275-1330	with Molex Connector	30 V	5.00A	5.33A	8.33A	0.0 A	1%	N.A
ULP275-1048	with Screw Terminal	48 V	3.12A	3.33A	5.20A	0.0 A	1%	N.A
ULP275-1348	with Molex Connector	48 V	3.12A	3.33A	5.20A	0.0 A	1%	N.A
ULP275-1058	with Screw Terminal	58 V	2.58A	2.76A	4.31A	0.0 A	1%	N.A
ULP275-1358	with Molex Connector	58 V	2.58A	2.76A	4.31A	0.0 A	1%	N.A
ULP275-0012	with Screw Terminal	12 V	12.50A	13.33A	20.83A	0.0 A	2%	PG & AC PF
ULP275-0312	with Molex Connector	12 V	12.50A	13.33A	20.83A	0.0 A	2%	PG & AC PF
ULP275-0015	with Screw Terminal	15 V	10.00A	10.66A	16.67A	0.0 A	2%	PG & AC PF
ULP275-0315	with Molex Connector	15 V	10.00A	10.66A	16.67A	0.0 A	2%	PG & AC PF
ULP275-0024	with Screw Terminal	24 V	6.25A	6.67A	10.41A	0.0 A	1%	PG & AC PF
ULP275-0324	with Molex Connector	24 V	6.25A	6.67A	10.41A	0.0 A	1%	PG & AC PF
ULP275-0030	with Screw Terminal	30 V	5.00A	5.33A	8.33A	0.0 A	1%	PG & AC PF
ULP275-0330	with Molex Connector	30 V	5.00A	5.33A	8.33A	0.0 A	1%	PG & AC PF
ULP275-0048	with Screw Terminal	48 V	3.12A	3.33A	5.20A	0.0 A	1%	PG & AC PF
ULP275-0348	with Molex Connector	48 V	3.12A	3.33A	5.20A	0.0 A	1%	PG & AC PF
ULP275-0058	with Screw Terminal	58 V	2.58A	2.76A	4.31A	0.0 A	1%	PG & AC PF
ULP275-0358	with Molex Connector	58 V	2.58A	2.76A	4.31A	0.0 A	1%	PG & AC PF
ULP275-CK metal cover kit accessory								
ULP275-PGPF-CK 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

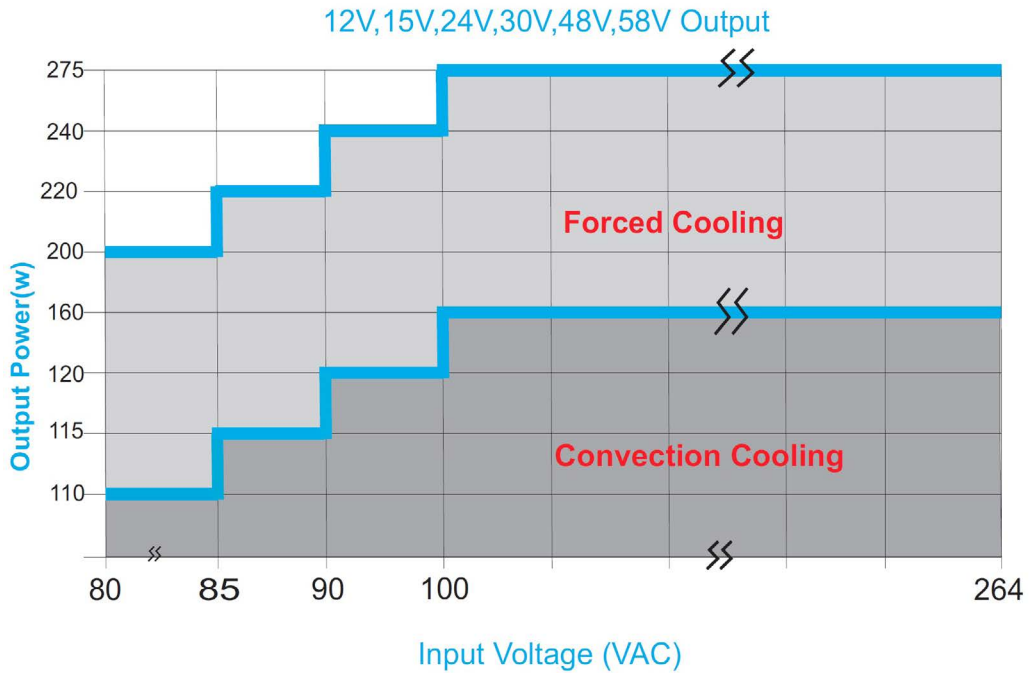
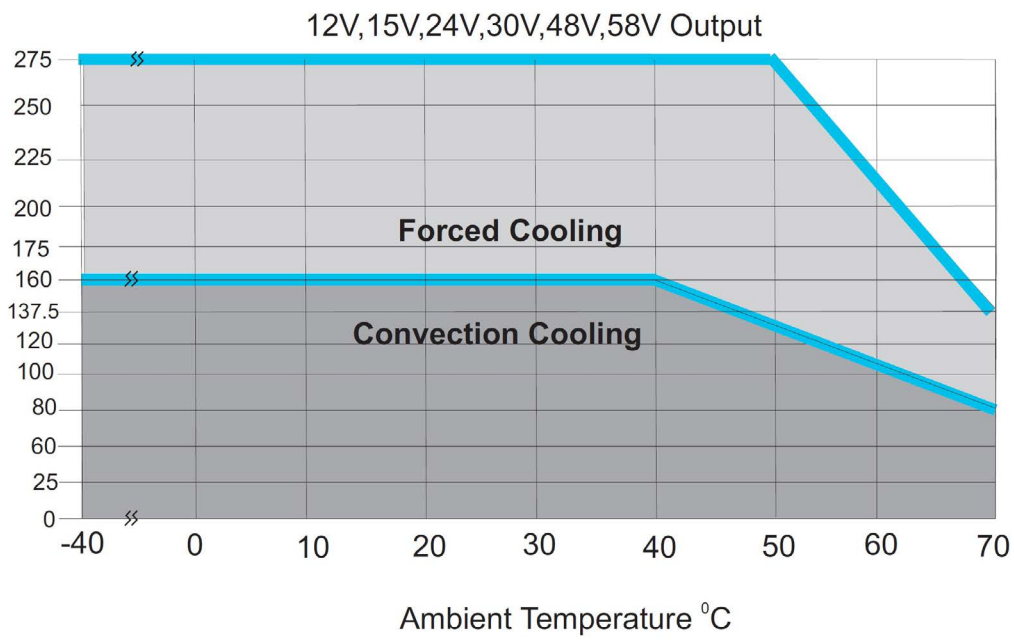


Notes

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. 275W with 13CFM forced air cooling and 160W 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.
8. Fusing on neutral for ITE model is optional.

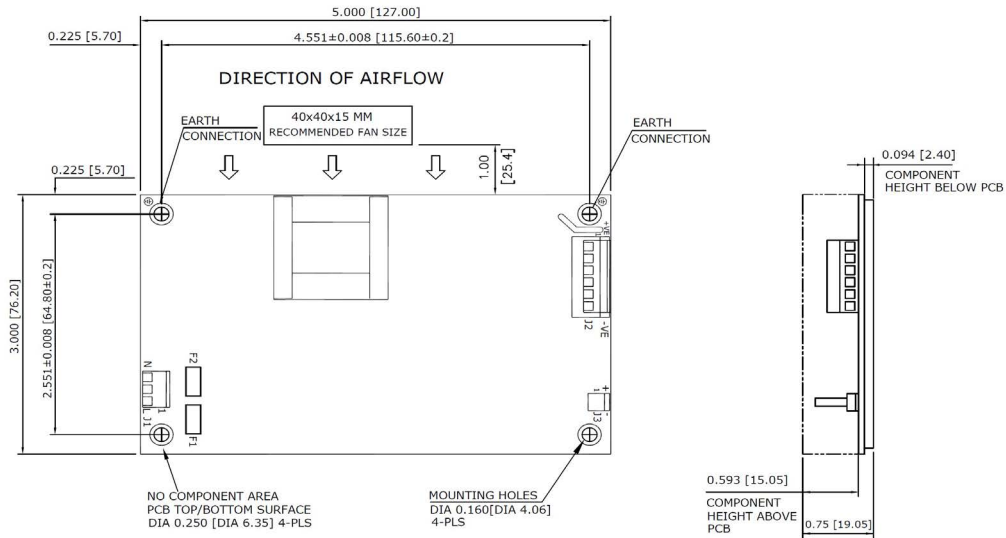
Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 Mating: 09-50-3031; Pins: 08-50-0106
DC Output Connector (J2) Option 1 (Screw Terminal)	Molex: 39357 Series or equivalent
DC Output Connector (J2) Option 2 (Molex Connector)	Molex: 26-60-4060 Mating: 09-50-3061; Pins: 08-50-0106
Aux (Fan) Output(J3)	AMP :640456-2 Mating: 640440-2
Signal Output (J4)	AMP :640456-3 Mating: 640440-3
Dimensions	5 x 3 x 0.75 inches (127 x 76.2x 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-3
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)	EN60950-1, IEC60950-1 (ed.2) , UL 60950 (ed.2), CSA C22.2 No.60950-1 (ed.2), Class1 SELV
Approval Agency	Nemko, UL, C-UL
Safety File Number(s)	(Pending)

Derating Curve



Mechanical Drawing

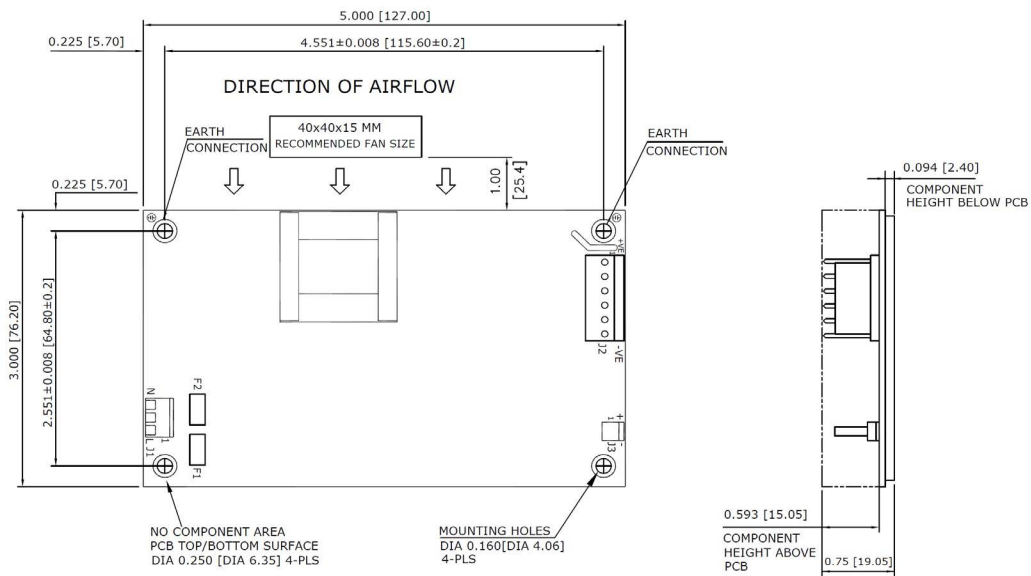
Option 1 (Without PGPF)



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

Mechanical Drawing

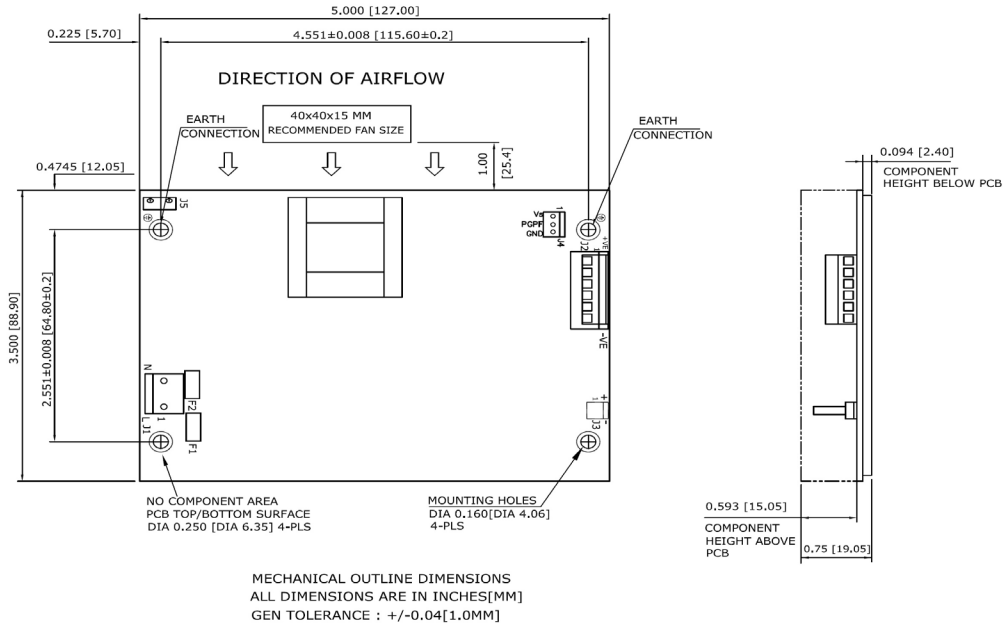
Option 2 (Without PGPF)



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

Mechanical Drawing

Option 3 (With PGPF)



Mechanical Drawing

Option 4 (With PGPF)

