



REV: 04112011

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- Universal AC Input
- Active PFC for EN61000-3-2 Class D Compliance
- Single, Dual, and Triple Outputs Available
- Compact Size: 3.2" x 5" footprint
- Low Profile: 1.75" height
- Convection Cooling (No Fans)
- Meets FCC & EN Class B EMI
- International Safety Approvals



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (90 ~ 264 VAC)
FREQUENCY	47-63Hz
INRUSH	25A @ 230VAC (Max Cold Start)
CURRENT	1.95A @ 115 VAC; 1.0A @ 230 VAC (Max Continuous)
PROTECTION	Single 3.15A Fuse / 250V Rated
LEAKAGE	≤750uA @ 264 VAC
HOLD-UP	10ms @ 230 VAC (Full Load)
EFFICIENCY	80% (typical)
HARMONICS	EN61000-3-2 Class D Compliant (>98 PF)

## OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	Fixed at Factory (see table)
MINIMUM LOAD	See Table
LINE REGULATION	±0.5% (max, over entire input range)
LOAD REGULATION	±0.5% maximum
RIPPLE	100mV p-p, max (20MHz BW)
SETPOINT ACCURACY	±0.5%
EXCURSION	±5% max; 25% Step Load
RECOVERY	100ms max
OVER CURRENT	115-150% (Auto-Recovery)

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	0°C to +75°C (Derate 2.5% per °C above 50°C)* *See Derating Curve for 48V output version
STORAGE TEMPERATURE	-40°C to +85°C
COOLING	Convection Cooled
HUMIDITY	5 ~ 95% (non-condensing)
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>340K Hours (25°C, Per Mil-STD 217F)
SIZE (INCHES)	5.00" x 3.20" x 1.75"

## EMISSIONS:

EMISSIONS	EN55022 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

## SAFETY STANDARDS:

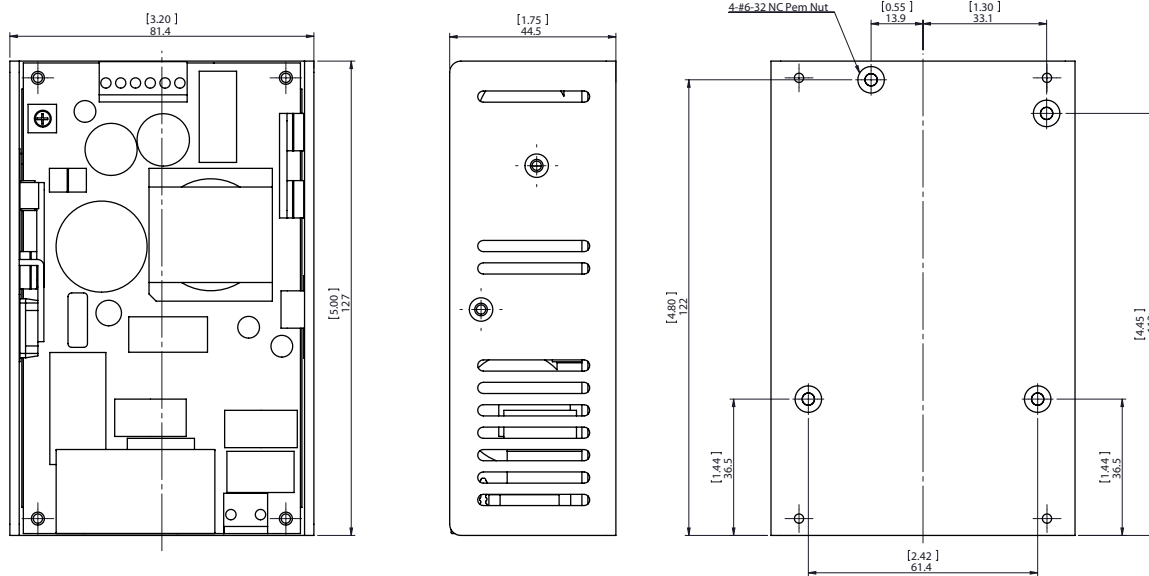
UL / CUL	60950-1
EN	60950-1
IEC	60950-1
CB	IEC 60950-1 / EN 60950-1
CE MARK	Low Voltage Directive



## OUTPUT MODELS:

Output Models:	V1 Output			V2 Output			V3 Output			Safety Certification
	VDC	A (Min)	A (Max)	VDC	A (Min)	A (Max)	VDC	A (Min)	A (Max)	
PSU-180-5	5V	0.5A	20A							Approved
PSU-180-12	12V	0.5A	12.5A							Approved
PSU-180-15	15V	0.5A	12A							Approved
PSU-180-24	24V	0.5A	7.5A							Approved
PSU-180-48	48V	0.5A	3.75A							Approved

## OUTLINE DRAWING AND DERATING CURVE:



### INPUT CONNECTOR:

Mated connector: 09-50-3031 (molex) or equivalent

Crimp terminal: 2478 or equivalent

1 - Neutral

3 - Line

### OUTPUT CONNECTOR:

Mated connector: 09-50-3061 (molex) or equivalent

Crimp terminal: 2478 or equivalent

1, 2, 3 - Vout 1 (+24V) 4, 5, 6 - Vout 1 (GND)

**PSU-180-48 (48V Output) Thermal Derating**

