

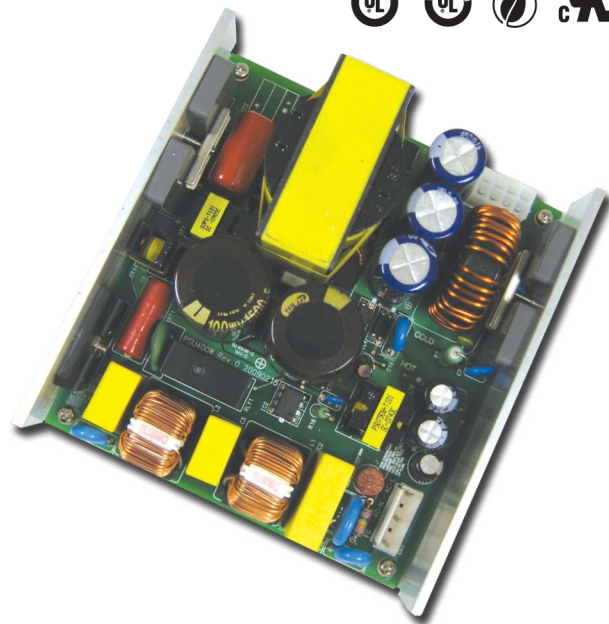


REV: 06082010

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- Designed for Motorized Industrial Equipment
- Low-Cost U-Channel Design
- Compact Size: 5.0" x 4.8" x 2.36"
- 120 VAC Input, 20 VDC Output
- 300 Watts-Free Air Convection Cooling [No Fans] (400 Watts Peak for 5mS, repetitive)
- High Efficiency: 86.5%
- Meets UL1450 for Motor-Operated Compressors, Pumps, and Painting Equipment



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (90 ~ 264 VAC)
FREQUENCY	47 ~ 63 Hz
INRUSH	<18 @ 230 VAC Full Load
CURRENT	3A @ 230 VAC (Max Continuous)
PROTECTION	Single 6A Fuse / 250V Rating
LEAKAGE	0.5mA Max @ 264 VAC
HOLD-UP	≥20ms @ 230 VAC / Full Load
EFFICIENCY	86.5% (typical, Full Load)

## OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	20.0 VDC
OUTPUT CURRENT	15.0A max (20A peak for 5ms, repetitive)
LINE REGULATION	±0.5% Max over entire input range
LOAD REGULATION	±0.5% maximum
RIPPLE	≤200mVp-p max (20MHz BW)
SETPOINT ACCURACY	±1%
EXCURSION	±5% Max for 25% Step Load
RECOVERY	250ms max
OVER-CURRENT	28A (Auto-Recovery)
OVER VOLTAGE PROTECTION	105-125% (recycle input to reset)

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	-10°C to +50°C
STORAGE TEMPERATURE	-40°C to +85°C
OPERATING HUMIDITY	10% ~ 95% (non-condensing)
STORAGE HUMIDITY	5% ~ 95% (non-condensing)
COOLING	Convection Cooled
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100K Hours (Per Mil STD 217F)
SIZE (INCHES)	5.0" x 4.8" x 2.36"

## EMISSIONS:

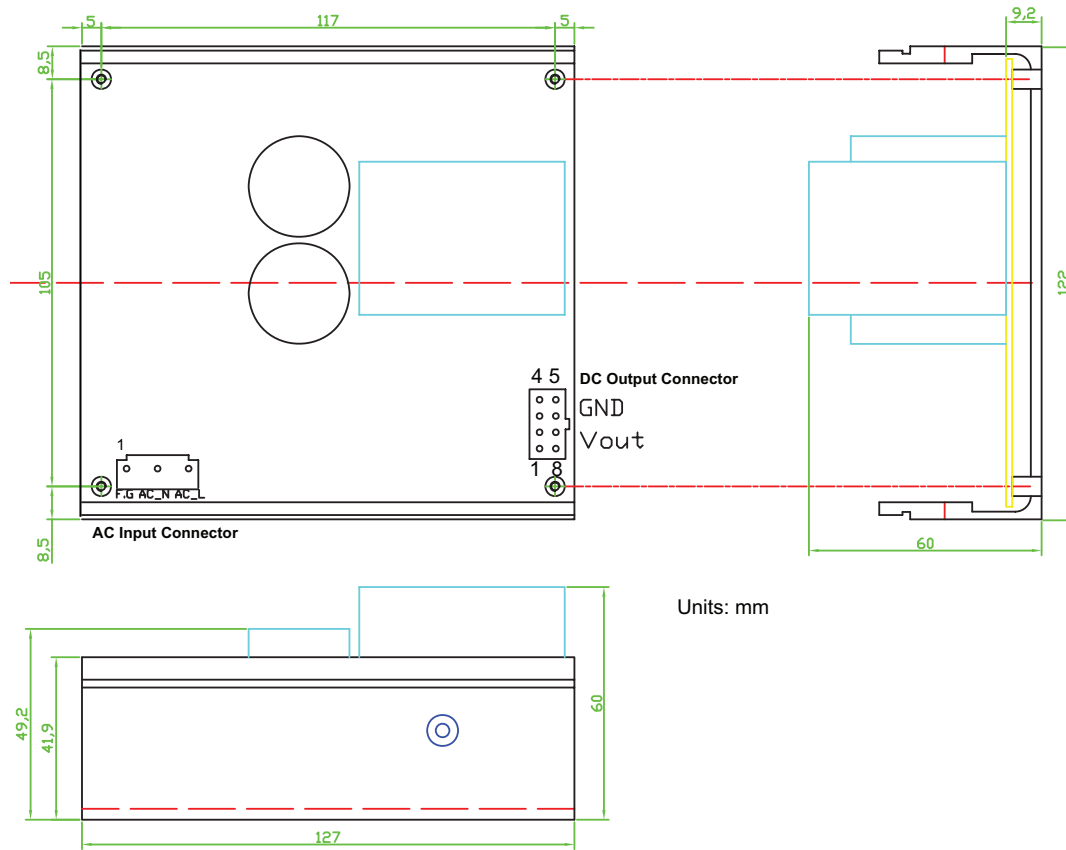
EMISSIONS	EN55022 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT/BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10,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

## SAFETY STANDARDS:

UL / cUL	1450
CE MARK	Low Voltage Directive



**OUTLINE DRAWING:**



AC Input Connector:		DC Output Connector:	
YEONHO YW396-05AV		YEONHO SMW420-08	
Mates with:		Mates with:	
YEONHO YH396-05AV (or equivalent)		Housing: YEONHO SMH420-NNB (or equivalent)	
Terminal: YEONHO SMT-420 (or equivalent)		Terminal: YEONHO SMT-420 (or equivalent)	
PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	E.G.	1-2, 7-8	Vout(+)
2	AC Neutral	3-6	Vout(-)
3	AC Line		