



REV: 08122011

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- **Universal AC Input**
- **Active PFC for EN61000-3-2 Class D Compliance**
- **High Efficiency Operation**
- **Low-Cost Vented-Enclosure Design**
- **Convection Cooled: 300W Free-Air; 350W @ 20cfm**
- **7.5V @ 2A Auxiliary Output (Standby)**
- **Remote On/Off Control**
- **DC Output Good status signal**
- **Meets Conducted EMI Class B**
- **International Safety Approvals**
- **Safety Certifications Pending, for Full Product Family**



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (85 ~ 264VAC)
FREQUENCY	47~63 Hz
INRUSH	25 @ 230VAC Full Load (Max Cold Start)
CURRENT	1.75A @ 230VAC (Max Continuous)
PROTECTION	Single 8A Fuse / 250V Rated
LEAKAGE	≤0.50mA @ 264VAC
HOLD-UP	16ms minimum (230VAC, Full Load)
EFFICIENCY	93% typical @ 230VAC Full Load (48Vout)
HARMONICS	EN61000-3-2 Class D Compliant (>0.98PF)

## OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	Main w/7.5Vdc Standby (see Output Table)
OUTPUT CURRENT	See Output Table
LINE REGULATION	±0.5% max, across full input range
LOAD REGULATION	±0.5% max, across full load range
RIPPLE	±0.6% p-p, max (20MHz BW)
SETPOINT ACCURACY	±1%
EXCURSION	±5% max, 25% Step Load
RECOVERY	100ms max
OVER-CURRENT	125~155% (Auto-Recovery)
OV PROTECTION	110~125% (Recycle input to reset)

## SAFETY & CONTROL SPECIFICATIONS:

CONTROL SIGNALS	All referenced to Output GND terminals
REMOTE ON/OFF	Connect to Output GND to enable
PWROK SIGNAL	Low (≤ 1Vdc) indicates Output in spec High (4.5~5.25Vdc): Output Voltage is low
7.5VSB	When AC is present, 7.5V Standby always ON

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	5°C to +45°C
STORAGE TEMPERATURE	-40°C to +85°C
OPERATING HUMIDITY	10% ~ 95% (non-condensing)
STORAGE HUMIDITY	5% ~ 95% (non-condensing)
COOLING	300W Free-Air; 350W @ 20cfm
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100K Hours (Per Mil STD 217F)
SIZE (INCHES)	9.85" x 5.44" x 1.89"

## EMISSIONS:

EMISSIONS	EN55022 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4KV Contact/ 8KV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26MHz-2000MHz, 10V/m, 80%AM
EFT / BURSTS	EN61000-4-4, 2KV
SURGES	EN61000-4-5, 2KV Earth, 1KV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 150KHz-80MHz, 10Vrms, 80%AM
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:

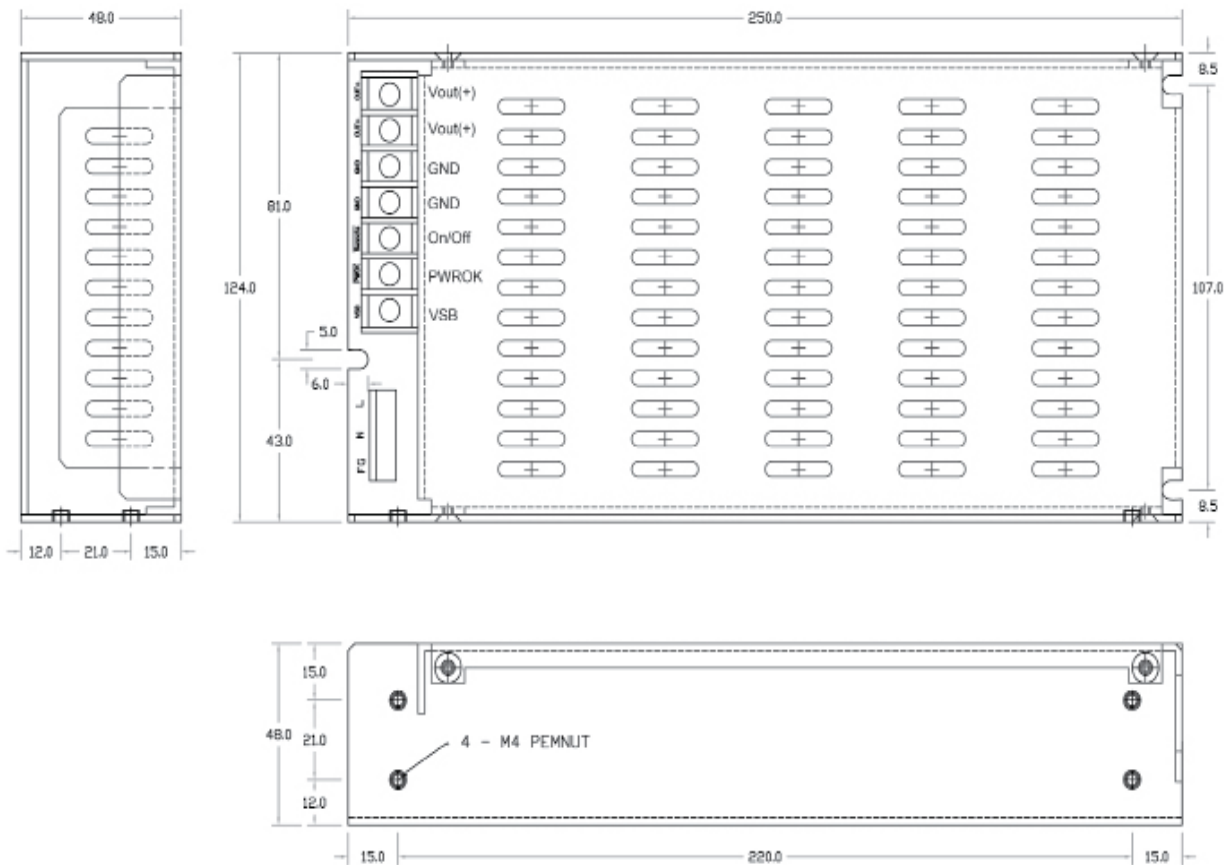
UL / cUL	60950-1
CE MARK	Low Voltage Directive



## OUTPUT MODELS:

Output Models:	Output #1			Output #2		
	VDC	Io (Min)	Io (Max)	VDC	Io (Min)	Io (Max)
PSU-350-48	48V	0.5A	7.29A	7.5V	0.0A	2.0A

## OUTLINE DRAWING:



AC input Connector: YEONHO part# YW396-05AV  
(1 = FG; 3 = LINE; 5 = NEUTRAL)  
Mates with: Housing: YEONHO part# YH396-05V  
Terminal: YEONHO part# YT396  
DC Output Terminal Block: Biryong part# BR95C-7P