

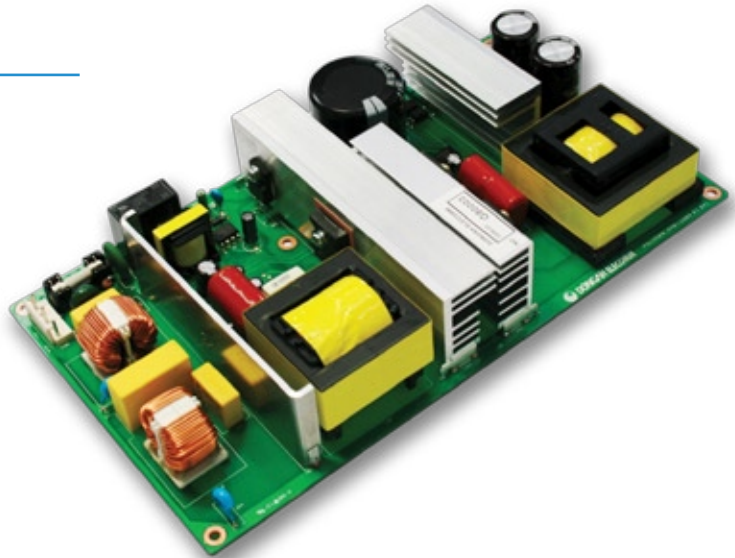


REV: 01102012

ITE / EMBEDDED POWER SUPPLY

## PRODUCT FEATURES:

- Designed for Audio / Video Equipment Applications
- Universal AC Input; 36Vdc Output
- Active PFC for EN61000-3-2 Class D Compliance
- High Efficiency Operation
- Low-Cost Open Frame Design
- 350 Watts Free-Air Convection Cooled (to 37°C)  
(500 Watts Peak for up to 5 Minutes)
- Power Derated up to 70°C
- 5V @ 350mA Auxiliary Output
- DC Power Good Status Signal
- Meets Conducted EMI Class B
- International Safety Approvals



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (85 ~ 264VAC)
FREQUENCY	47-63Hz
INRUSH	<40A @ 230VAC Full Load (Max Cold Start)
CURRENT	3A @ 230VAC (Max. Continuous)
PROTECTION	Single 8A Fuse / 250VAC
LEAKAGE	≤0.75mA, max @ 253VAC
HOLD-UP	16ms Minimum (230VAC & Full Load)
EFFICIENCY	≥88% typical @ 230VAC Full Load (36Vout)
HARMONICS	EN61000-3-2 Class D Compliant (>98 PF)

## OUTPUT SPECIFICATIONS:

OUTPUT VOLTAGE	36Vdc (Main); 5Vdc (Auxiliary) – see Table
LINE REGULATION	±0.5% max, across full input range
LOAD REGULATION	±0.5% max, across full load range
RIPPLE	1% p-p, max (20MHz BW)
SETPOINT ACCURACY	±1%
EXCURSION	±5% max, 25% Step Load
RECOVERY	100ms max
OVER-CURRENT	110-150% (Auto-Recovery)
OVER VOLTAGE PROTECTION	105-120% (recycle input to reset)

## STATUS & CONTROL SPECIFICATIONS:

REMOTE ON/OFF	Remote On/Off active low
V-AUX	5V @ 350mA Auxiliary Output (Standby)
POWER GOOD	Active Low, Open Collector

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE	0°C to +37°C (350W); Power Derated to 70°C
STORAGE TEMPERATURE	-40°C ~ +85°C
OPERATING HUMIDITY	10% ~ 95% RH (non-condensing)
STORAGE HUMIDITY	5% ~ 95% RH (non-condensing)
COOLING	Convection Cooled Operation
VIBRATION	10-55Hz, 2G, 3Min Period, / 60 min each (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100k Hours (per MIL STD 217F)
SIZE (INCHES)	5.11" x 9.05" x 1.5"

## EMISSIONS:

EMISSIONS	EN55022 Level B (Conducted)
ELECTROSTATIC DISCHARGE	EN61000-4-2, 4KV Contact / 8KV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26KHz-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, 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:

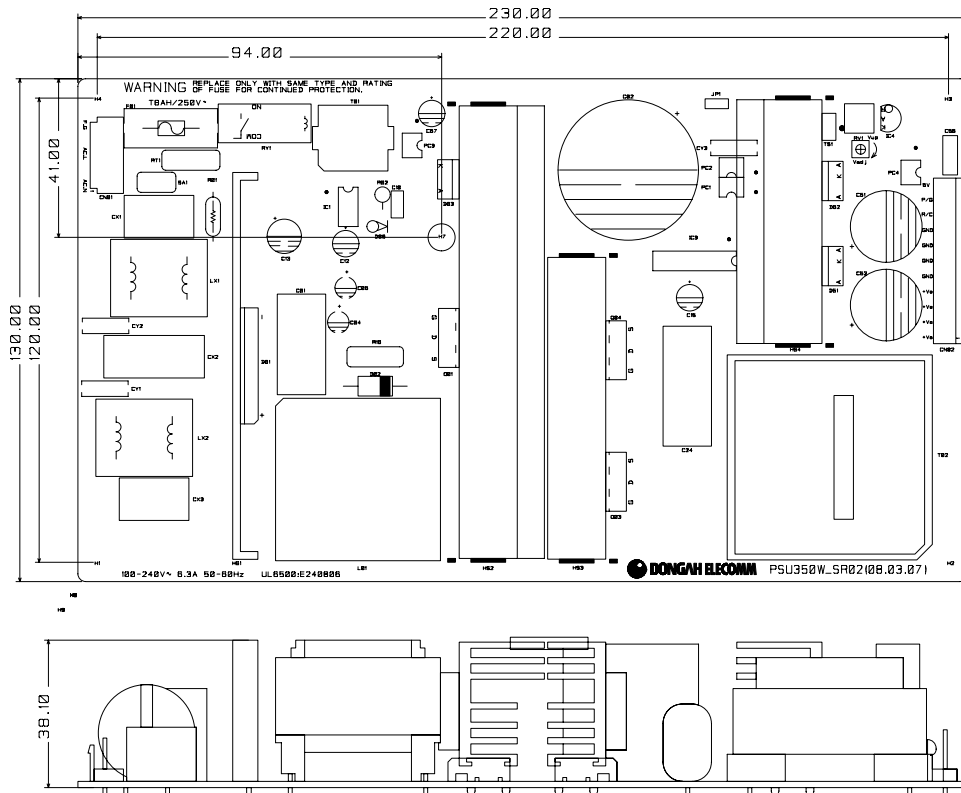
UL / CUL	60065 (Audio / Video Equipment)
EN	EN60065 (Audio / Video Equipment)
CB	IEC 60065



## OUTPUT MODELS:

Output Models:	V1 Output			Auxiliary/Standby Output		
	VDC	A (Min)	A (Max)	VDC	A (Min)	A (Max)
PSU-350-36	36V	0.0A	9.72A	5V	0.0A	0.35A

## OUTLINE DRAWING:



Input Connector: 0359790310  
(Equivalent Alternative Part:  
YW396-05AV).

Mated with 0359770500  
(Equivalent Alternative Part:  
YH396-05V)

Neutral Pin#1  
Live Pin#2  
Chassis Pin#3

Output connector: Molex 35978-1110  
Mated Connector: 35977-1100

### Pin Assignment:

Vo(+) 1~4  
Vo(-) 5~8  
R/C 9  
P/G 10  
5V 11

## DERATING CURVE:

**PSU-350 Thermal Derating**  
Free-Air Convection Cooling

