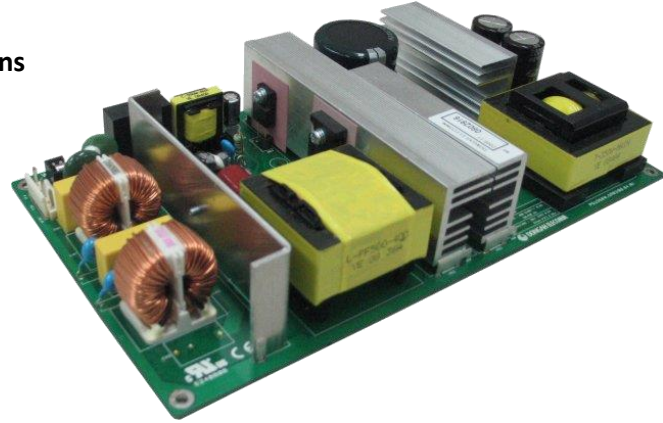




PSU-350-36

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 @ 230AVC ,Full load(Max cold start) |
| CURRENT | 3A @ 230VAC(Max Continuous) |
| PROTECTION | Single 8A Fuse/250VAC |
| LEAKAGE | ≤0.75mA, max @ 253VAC |
| HOLD-UP TIME | 16ms Minimum(230VAC & Full load) |
| EFFICIENCY | ≥88% Typical @230Vac,Full Load(36Vout) |
| HARMONICS | EN61000-3-2 Class D Compliant (>98 PF) |

General Specifications:

| | |
|--------------------|--------------------------------------------------|
| OPERATING TEMP. | 0°C to +37°C (350W); Power Derated to 70°C |
| STORAGE TEMP. | -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" |
| | (129.8mm x 229.9mm x 38.1mm) |

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) |
| OVERVOLTAGE PROTECTION | 105~120%(Recycle Input to Reset) |

Electromagnetic Compatibility: (TBD)

| | |
|-------------------------|-----------------------------------------------|
| 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 |

Status & Control signals:

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

Safety Standards:

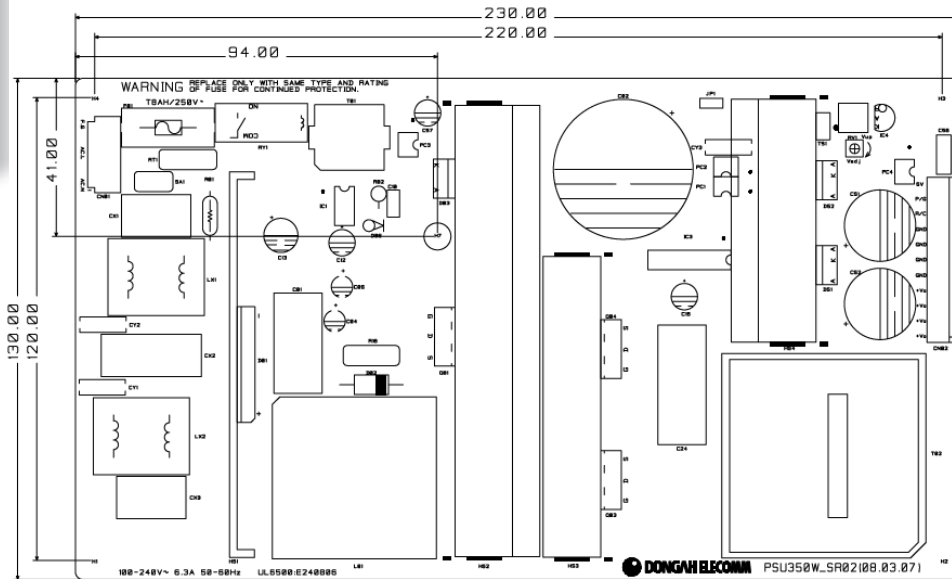
| | |
|----------|-----------------------------------|
| UL / CUL | 60065 (Audio / Video Equipment) |
| EN | EN60065 (Audio / Video Equipment) |
| CB | IEC 60065 |

PSU-350-36

Output Specifications:

| MODEL | 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:

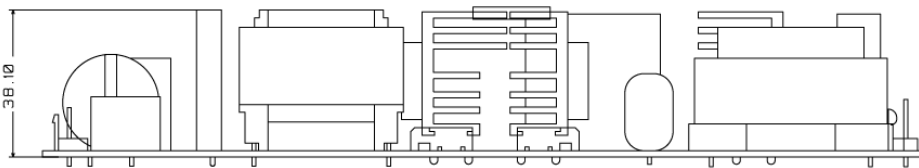


Input Connector: 0359790310
(Equivalent Alternative Part: YW396-05AV)
Mated with 0359770500
(Equivalent Alternative Part: YH396-05V)

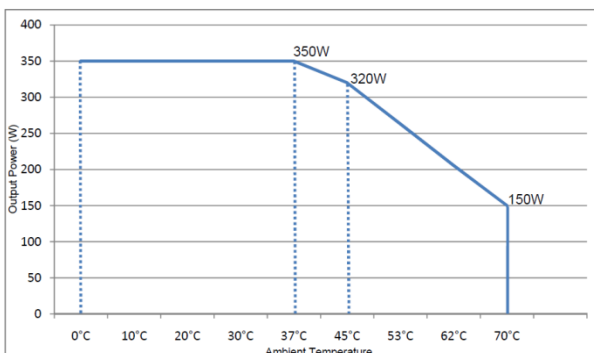
Neutral Pin#1
Live Pin#2
Chassis Pin#3

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