

# OPEN FRAME POWER SUPPLY 35WATT

## STONTRONICS: PS-35 Series



### Features:

- Universal AC Input/ Full range (90~264Vac)
- High Efficiency, low power consumption
- Output protections, SCP/OVP/OLP/OPP
- Wide operating temperature (-20°C~65°C)
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 Year Warranty



### Description:

The 35W open frame power supply range has been specially designed to offer high efficiency, long life and high reliability for use in a variety of applications. Each model is approved to CE, CB, UL and comes with a 3 year warranty.

Specification					
Model		PS-35-5	PS-35-12	PS-35-24	PS-35-48
Output					
DC Output		5V	12V	24V	48V
Rated Current		6A	3A	1.5A	0.75A
Ripple & Noise Note 2	0~65°C	≤80mV	<120mV		
	-20°C~0°C	≤150mV	<200mV		
Voltage ADJ. Range		4.75~5.5V	11.4~13.2V	22.8~26.4V	46.5~52.8V
Voltage Accuracy		±1.0%			
Line Regulation		±0.5%			
Load Regulation		±1.0%			
Set-up Time		≤2.0S@115Vac ≤1.0S@230Vac full load			
Hold up Time		≥10mS@115Vac ≥20mS@230Vac full load			
Temperature Coefficient		±0.03%/°C			
Overshoot and Undershoot		<0.5%			
Input					
Voltage Range Note 3		90Vac~264Vac. 90Vac input full load			
Frequency Range		47Hz-63Hz			
Efficiency (typical)	220Vac input	≥78%	≥81%	≥83%	≥86%
AC Current (max.)		<1.0A			
Inrush Current (typical)		<23A@115Vac <45A@230Vac Cold Start			
Leakage Current		Input to Output: ≤3.5mA; Input to PG: ≤0.25mA			

### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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Specification Continued				
Model	PS-35-5	PS-35-12	PS-35-24	PS-35-48
Protection				
Over Load	6.3~10.8A	3.15~5.4A	1.58~2.7A	0.78~1.35A
	Protection type: Hiccup model, Auto recovery			
Over Voltage	5.75~7.5V	13.8~16.2V	27.6~32.4V	55.2~64.8V
	Protection type: Constant voltage, Auto recovery			
Over Power	31.5~54W	37.8~64.8W	37.9~64.8W	37.4~64.8W
	Protection type: Hiccup model, Auto recovery			
Shorted Circuit	Long-term mode, Auto recovery			
Environment				
Operating amb. Temp. & Hum.	-20°C~65°C; 20%-90%RH No condensing (refer to derating curve)			
Storage Temp. & Hum.	-30°C~85°C; 10%~95%RH No condensing			
Safety & EMC (Note 4)				
Safety Standards	UL60950-1; EN60950-1:2006			
Withstand Voltage	Input-Output: 3.0KVac/10mA ; Output-PG: 1.5KVac/10mA;Output-PG: 0.5KVdc/10mA			
Isolation Resistance	≥100M ohms			
EMI Conduction & Radiation	Compliance to EN55022 Class B FCC PART15B			
EMS Immunity	Compliance to EN61000-4-2			
Others				
MTBF (MILHDBK-217F)	More than 200,000Hrs (35, Full load)			
Dimensions	101.6 x 50.8 x 24 (mm)			
Packing	60PCS/CTN, 11KGS, 0.024CBM			
Cooling Method	Colling by free air convection			
Note				
1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature				
2. Measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uF & 10uF parallel capacitor.				
3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				

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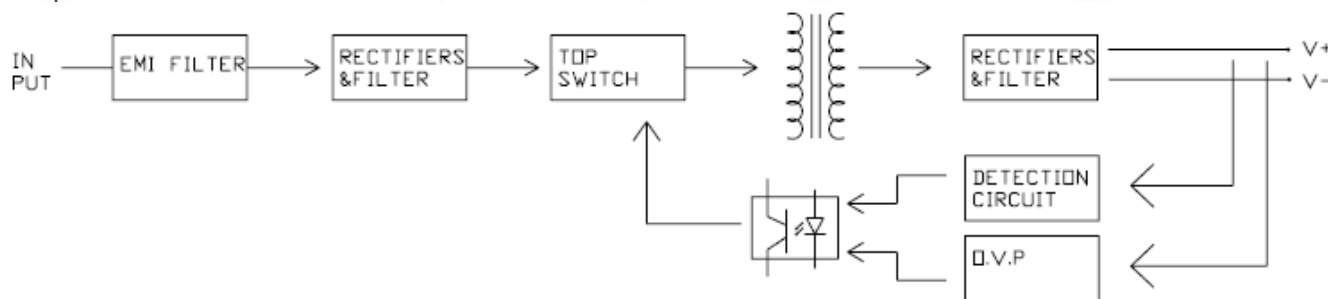
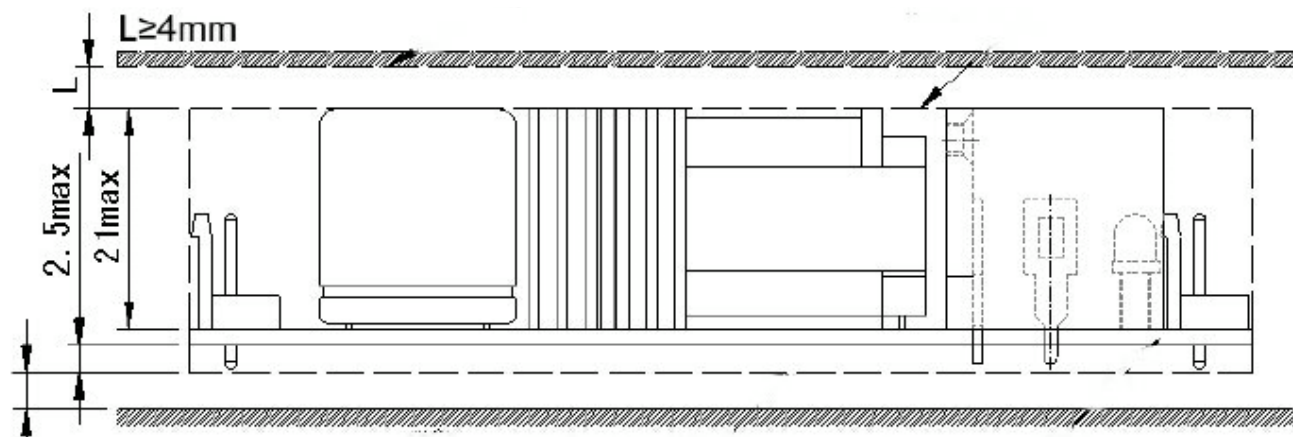
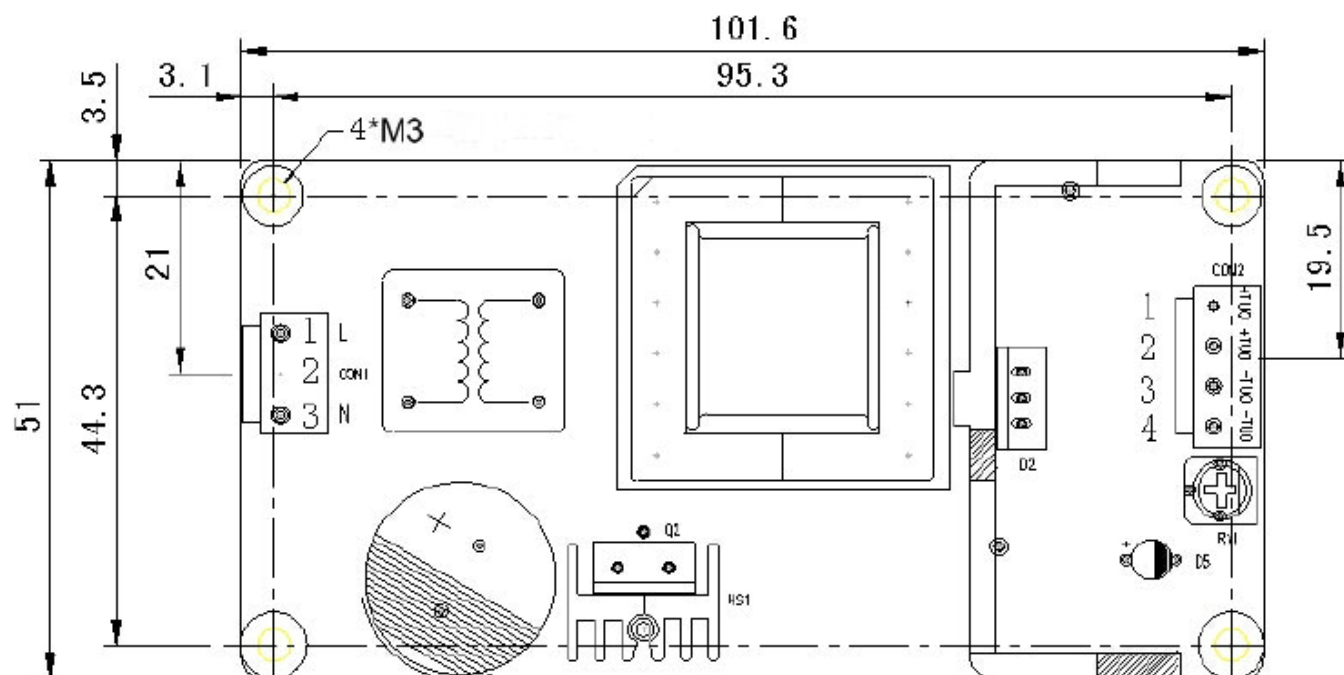
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### Diagrams



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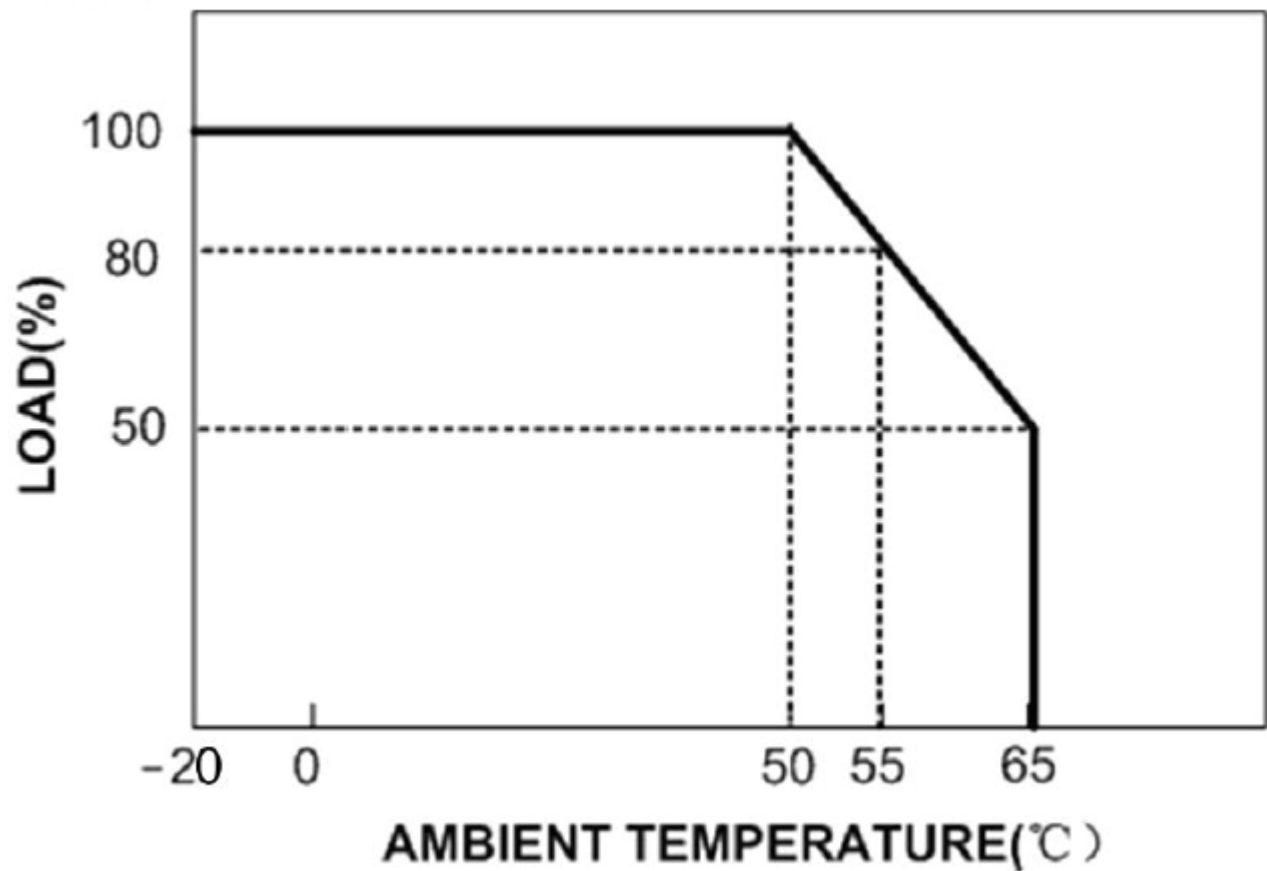
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Derating Curve



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