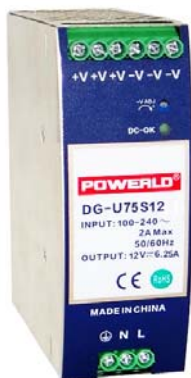


**Features:**


- Universal AC input range(90~264Vac)
- Long life, high reliability and high efficiency
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20℃~70℃)
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim,45mm width
- 3 years warranty


**SPECIFICATION**

MODEL		DG-U75S12	DG-U75S24		
OUTPUT	DC Output	12V	24V		
	Rated Current	6.25A	3.2A		
	Current Range	Note 1	0~6.25A	0~3.2A	
	Ripple and Noise	0~70℃	≤120mV	≤120mV	
		Note 2 -20℃	≤240mV	≤240mV	
	Voltage ADJ. Range	12~14V	24~28V		
	Voltage Accuracy	±1.0%			
	Line Regulation	±0.5%			
	Load Regulation	±1.0%			
	Set-up Time	<1.5S@230Vac ; <3.0mS@115Vac			
	Hold up Time	≥10mS@115Vac; ≥20mS@230Vac Full load			
	Temperature Coefficient	±0.03%/℃			
Overshoot and Undershoot	<5.0%				
INPUT	Voltage Range	90Vac~264Vac, 127Vdc-370Vdc			
	Frequency Range	47Hz~63Hz			
	Efficiency ( Typical)	82%	87%		
	AC Current (max.)	<2.0A/115VAC ; <1.0A/230VAC			
	Inrush Current (Typical)	20A/115Vac ; 35A/230Vac Cold start			
	Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA (264Vac input, 63Hz)			
PROTECTION	Over Load	7.0~9.5A	5.25~6.5A		
		Protection type: Constant current			
	Over voltage	15~18V	29~33V		
		Protection type: Shut down, re-power on.			
	Over temperature	100±5℃, detect on heat sink of power transistor; shut down O/P, re-power on.			
Short Circuit	Long-term mode, auto recovery				
Operating amb. Temp. & Hum.	-20℃~70℃; 20%~90%RH No condensing (pls refer to derating curve)				
ENVIRONMENT	Storage Temp. & Hum.	-40℃~85℃; 5%~95%RH No condensing			
	Safety Standards	UL508, UL60950, EN60950			
SAFETY & EMC Note 3	Withstand Voltage	Primary-Secondary: 3.0KVac/10mA .Primary-PG: 2.0KVac/10mA. Secondary-PG: 0.5KVac/10mA.			
	Isolation Resistance	10M ohms			
	EMC Emission	Compliance to EN55022, EN55024, FCC PART 15 Class B			
	Harmonic Current	Compliance to EN61000-3-2, CLASS A			
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,11; heavy industry level			
	MTBF (MIL-HDBK-217F)	More than 500,000Hrs (25℃, Full load)			
OTHERS	Dimension (L*W*H)	124*119*45mm			
	Packing	24pcs/CTN,15.0Kg, 0.04cbm			
	Cooling method	Cooling by free air convection			

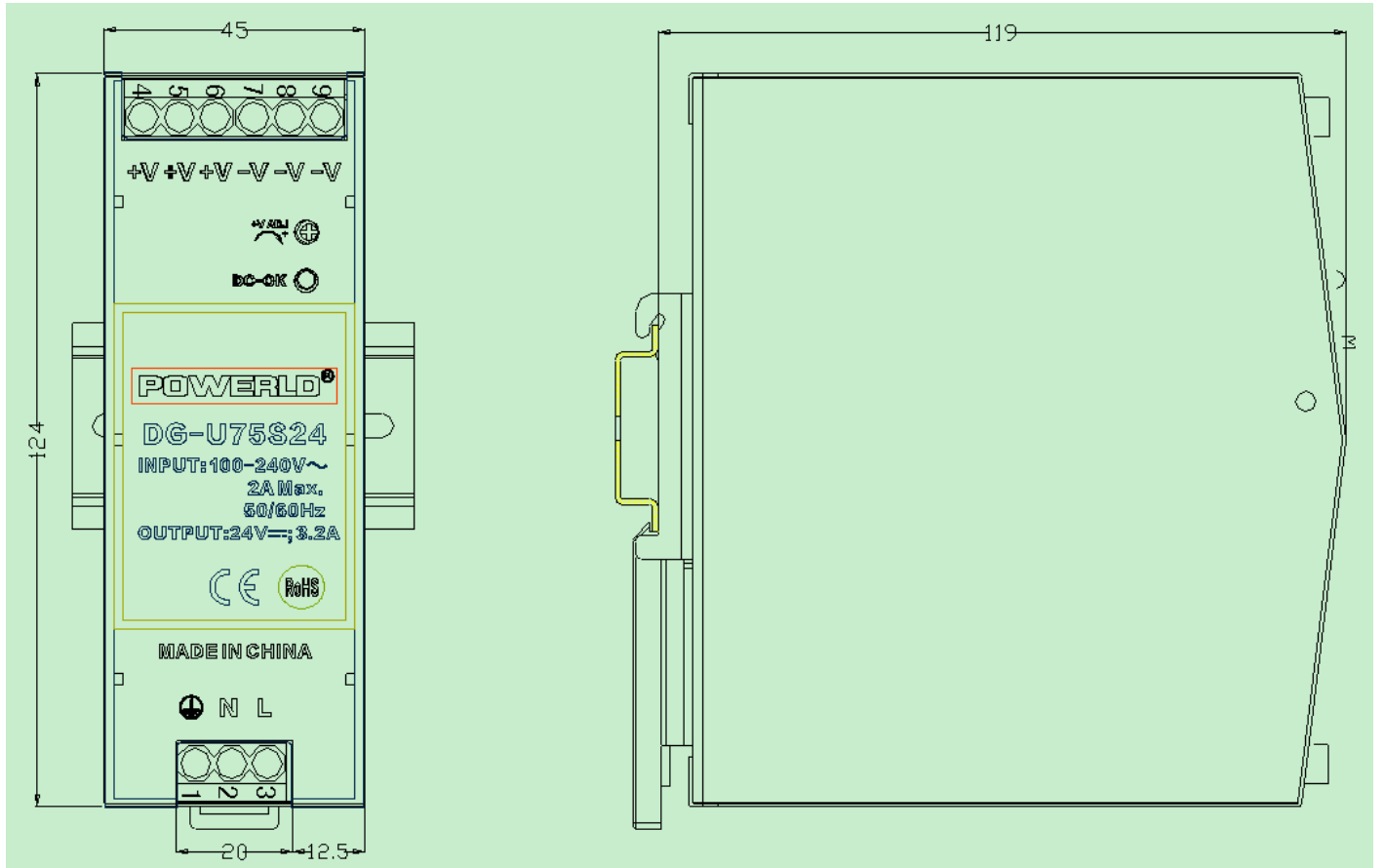
## NOTE

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 0.1 uF & 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on <http://www.powerld.com>.

**Mechanical Specification**

Unit: mm

Tolerance: ±1mm

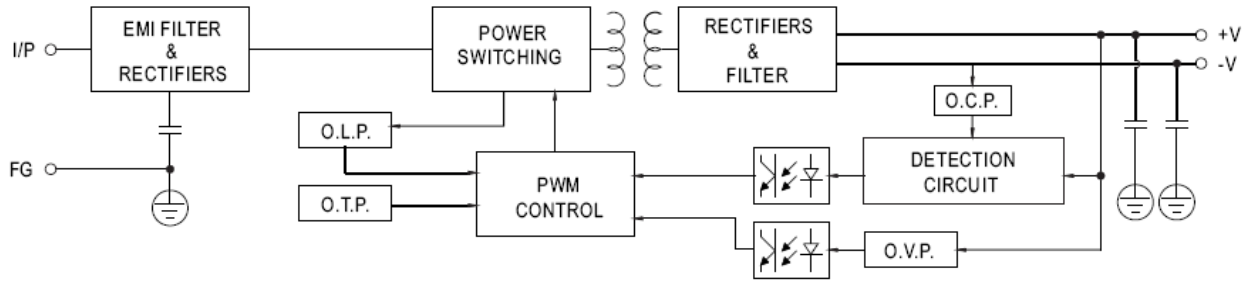


1.AC Screw terminal information			
No.	Function	Wire Specs	Recommended torque
1	PE	20-10AWG	5Nm
2	N		
3	L		

2.DC Screw terminal information			
No.	Function	Wire Specs	Recommended torque
4~6	V+	20-10AWG	5Nm
7~9	V-		

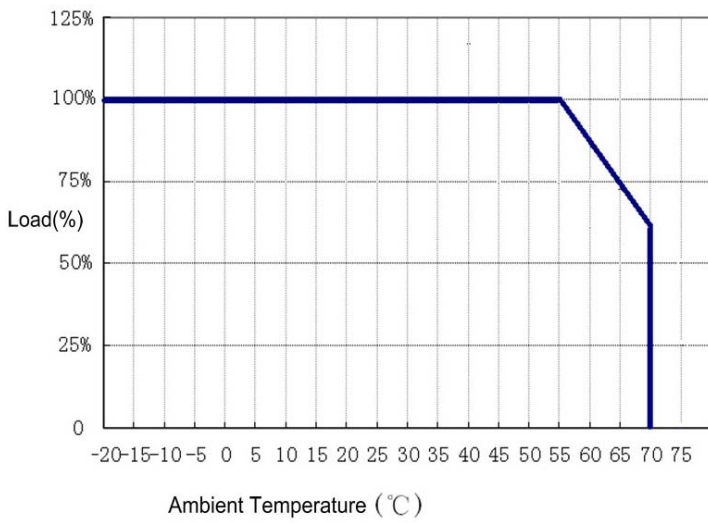
	AC/DC Terminal blocks
Type	Screw terminal blocks
Solid Wire	0.5-6mm <sup>2</sup>
Strand Wire	0.5-4mm <sup>2</sup>
Wire Spec	AWG20-10
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	0.5NM

■ **Block Diagram**

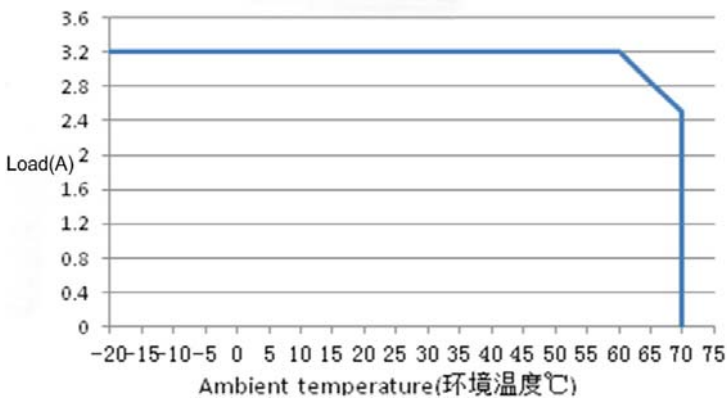


■ **Derating Curve**

**DG-U75S12**



**DG-U75S24**



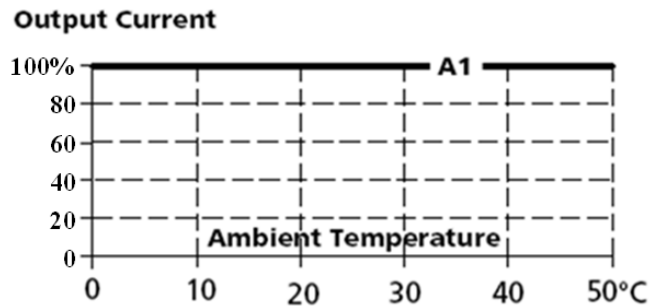
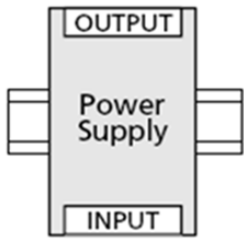
■ Mounting method instruction

A1 is recommended output current

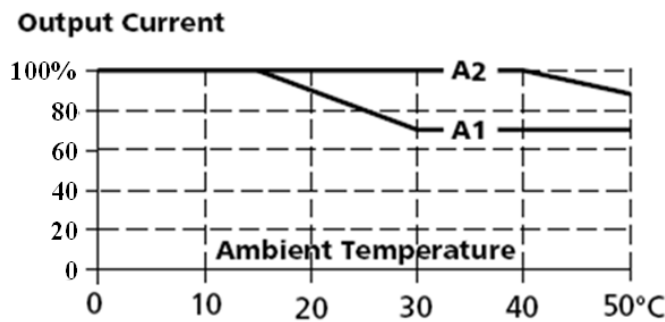
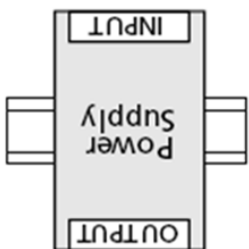
A2 is the allowed max output current (PSU lifetime is around half of A1)

DG-U75S12:

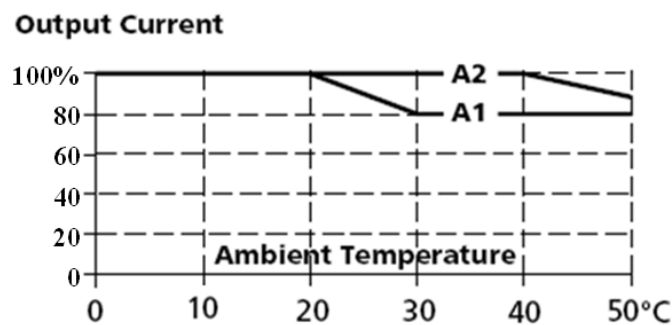
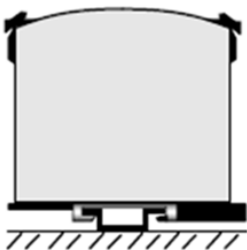
Mounting A:



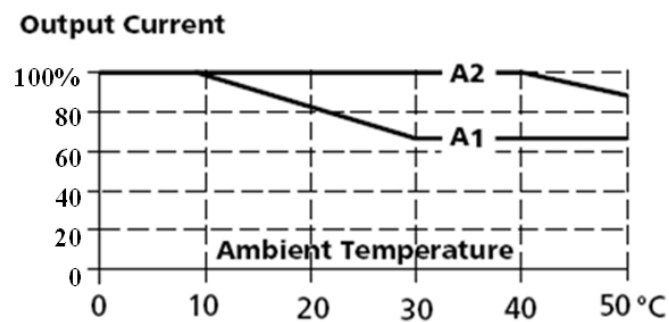
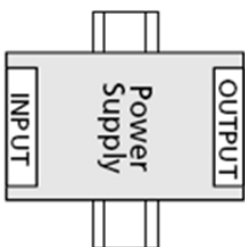
Mounting B:



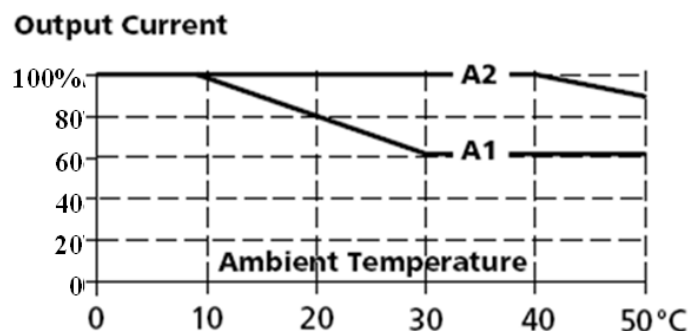
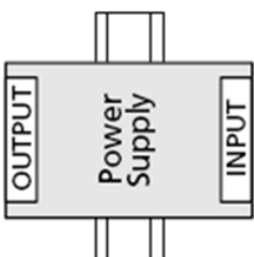
Mounting C:



Mounting D:

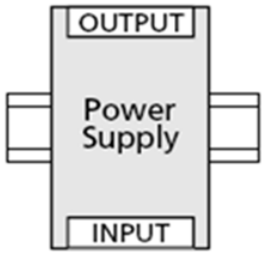


Mounting E:

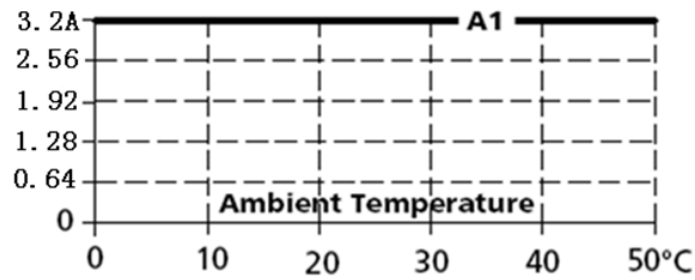


DG-U75S24:

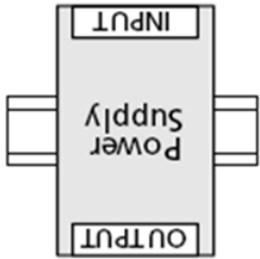
Mounting A:



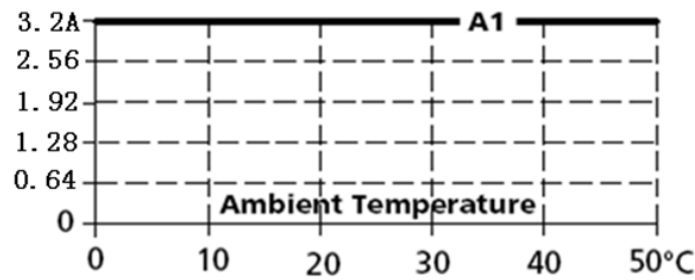
Output Current



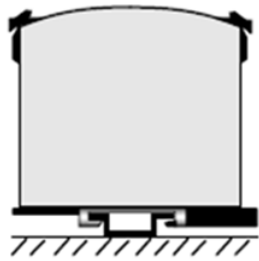
Mounting B:



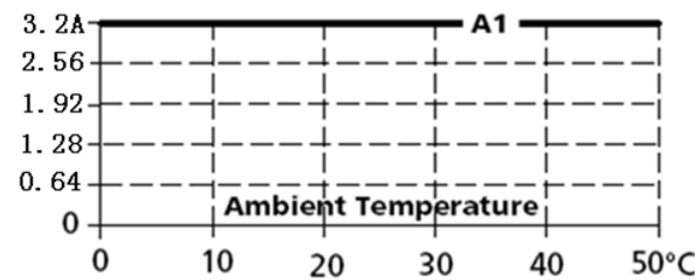
Output Current



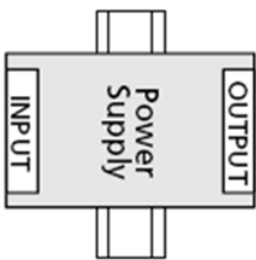
Mounting C:



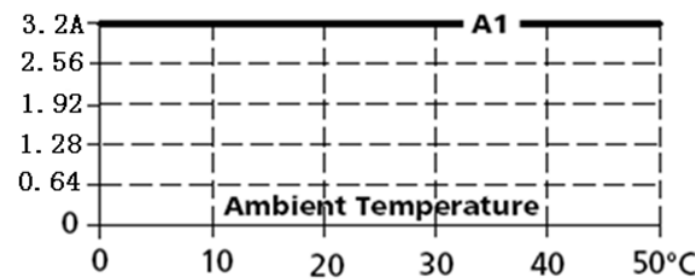
Output Current



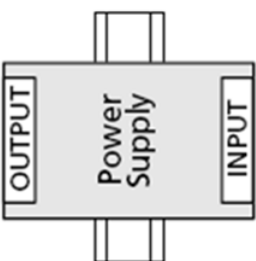
Mounting D:



Output Current



Mounting E:



Output Current

