



Features:

- Universal AC input range(85~264Vac)
- Support 1+1 or N+1 redundant system (suggest to use redundancy modules.)
- ➤ Built-in active PFC,PF>0.95
- ➤ High efficiency up to 92%
- Built-in current sharing function
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- ➤ Wide operating ambient temp (-25°C~70°C)
- 150%(180W) peak load capacity
- Easy Fuse Tripping due to High Overload Current
- Excellent Partial Load Efficiency
- Built-in DC OK relay contact
- Can be installed on TS-35/7.5 or TS-35/15
- > 100% full load burn-in test
- Suitable for critical applications
- ➤ Ultra-slim,32mm width
- > 3 years warranty



SPECIFICATION

MODEL		DG-120-12	DG-120-24	DG-120-48		
	DC Output		12V	24V	48V	
	Rated Current		10A (pls refer to derating curve)	5A	2.5A	
	Current Range	Note 1	0~10A	0~5A	0~2.5	
	Ripple and Noise	0~70℃	≤100mV	≤120mV	≤240mV	
	Note 2	-25°C	≤200mV	≤240mV	≤240mV	
	Voltage ADJ. Range		12~14V	24~28V	48~56V	
OUTPUT	Voltage Accuracy		±1.0%			
	Line Regulation		±0.5%			
	Load Regulation		±1.0%			
	Set-up Time		<250mS@230Vac ; <500mS@100Vac			
	Hold up Time		≥20mS(230Vac input, Full load)			
	Temperature Coefficient		±0.03%/°C			
	Overshoot and Undershoot		<5.0%			
	Voltage Range		85Vac~264Vac, 127Vdc-360Vdc			
	Frequency Range		47Hz~63Hz			
	Power Factor (typical)		0.99/100Vac 0.95/230Vac			
INPUT	Efficiency (Typical)		89.5%	91%	92%	
	AC Current (max.)		<1.5 A/100Vac <0.65A/230Vac			
	Inrush Current (Typical)		<30A/100Vac <60A/230Vac Cold start			
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA			
	Over Load		110%~150% of rated current, Constant current limiting for some time(150% of rated current, last 3S) then PS			
			stop working for 7S,after 7S,if the load <=rated current, PS will work normally, auto recovery			
DDOTECTION	Over voltage		15~18V	29~33V	58~65V	
PROTECTION			Protection type: Hiccup mode, Auto recovery			
	Over temperature		100±5℃, detect on heat sink of power transistor; shut down O/P, auto recovery after temperature goes down.			
	Short Circuit		Long-term mode, auto recovery			
ENDUDONIMENT	Operating amb. Ten	np. & Hum.	-25℃~70℃; 20%~90%RH No condensing			
ENVIRONMENT	Storage Temp. & Hum.		-40°C~85°C; 5%~95%RH No condensing			
	Safety Standards		meet UL508, UL60950, EN60950			
	Withstand Voltage		Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:2.5KVac; ≤10mA. Secondary-PG:0.5KVac≤10mA.			
SAFETY &EMC	Isolation Resistance		10M ohms			
Note 3	EMC Emission		Compliance to EN55022, EN55024, FCC PART 15 Class B			
	Harmonic Current		Compliance to EN61000-3-2, CLASS A			
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level			
OTHERS	MTBF (MIL-HDBK-217F)		More than 300,000Hrs (25℃, Full load)			

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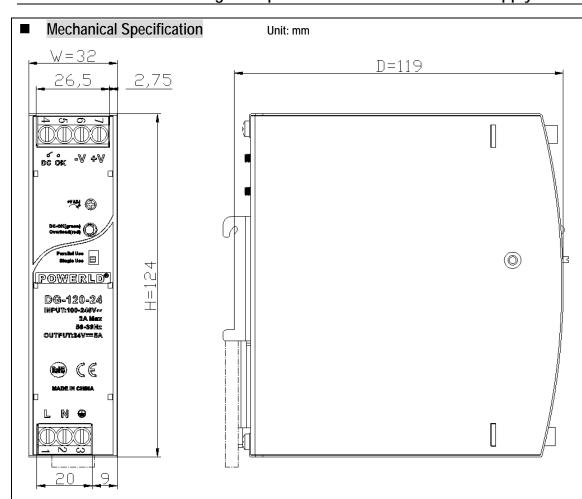


POWERLD 120Watts Single Output Industrial DIN Rail Power Supply DG-120 Series

	120 Walts Single	Satpat industrial bill Rail Fower Supply BG 120 Series			
	Dimension (L*W*H)	124*119*32mm			
	Packing	28pcs/CTN,18.02Kgs, 0.04cbm			
	Cooling method	Cooling by free air convection			
	Power boost	150% of rated current			
Additional function	DC OK	V On: when output voltage is up to 90% of rated output voltage			
		V Off: when output voltage is down to 80% of rated output voltage			
	DC OK relay contact rating	Max 30V/1A or 60V/0.3A or 30Vac/0.3A Resistive load			
	Parallel function	support			
	1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ 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.				
NOTE	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" or				
	http://www.powerld.com.cn.				

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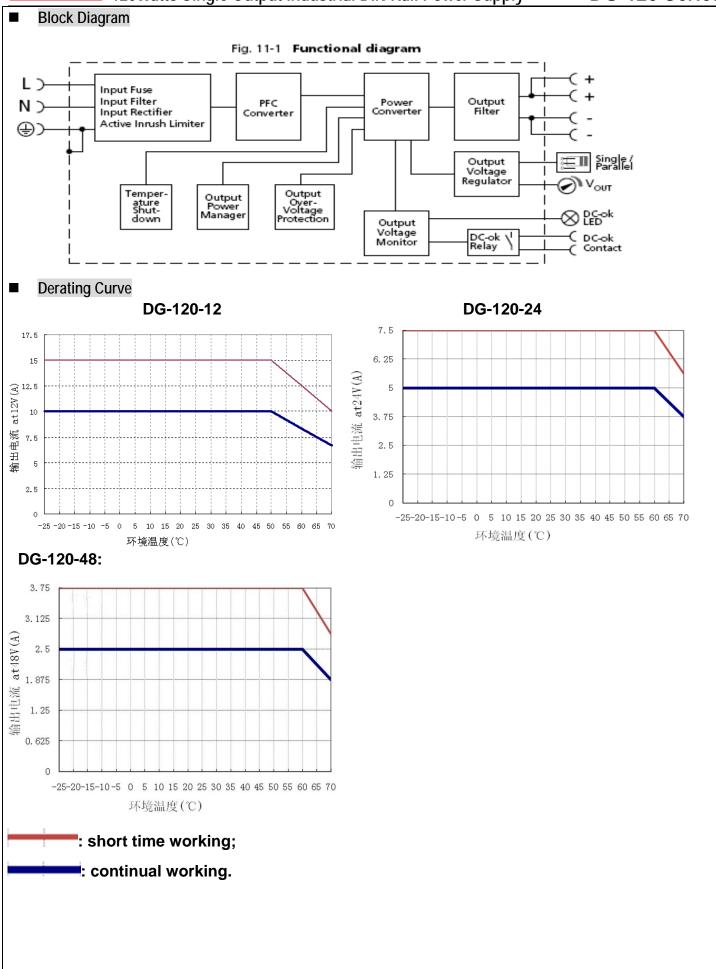


1.AC terminal blocks installation information				
Terminal No.	Function	Wire Spec	Recommended torque	
1	L			
2	N	20~10AWG	1Nm	
3	PG			

2.DC terminal blocks installation information				
Terminal No.	Function	Wire Spec	Recommended torque	
4 & 5	DC OK Relay Contact			
6	-V	20~10AWG	1Nm	
7	+V			

	AC/DC Terminal
Туре	Screw terminal blocks
Solid Wire	0.5-6mm ²
Strand Wire	0.5-4mm ²
Wire Spec	AWG20-10 (PG wire >18AWG)
Max Wire Diameter	2.8mm
Recommended stripping length	7mm
Screwdriver	3.5mm Straight or Cross Screwdriver
Recommended Torque	1NM





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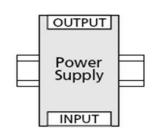


A1 is recommended output current

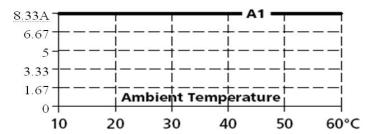
A2 is the allowed max output current (PSU lifetime is around half of A1)

DG-120-12

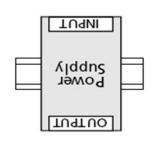
Mounting A



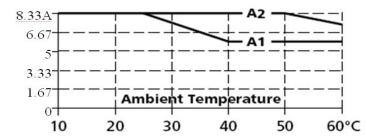
Output Current



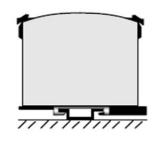
Mounting B



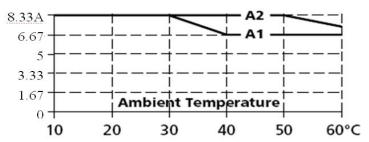
Output Current



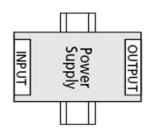
Mounting C



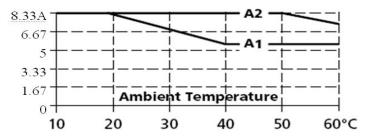
Output Current



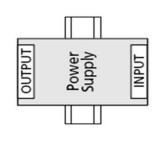
Mounting D



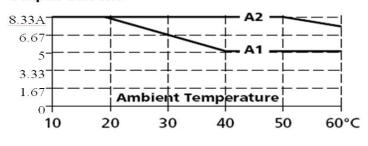
Output Current



Mounting E



Output Current



Email: tom@powerld.com

DG-120-24



