新星 POWERLD®

120Watts Single Output Industrial DIN Rail Power Supply

DG-120 Series

amtek

Autorizovaný distributor
Česká republika, Slovensko

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

c UL us E232347 CE ROHS

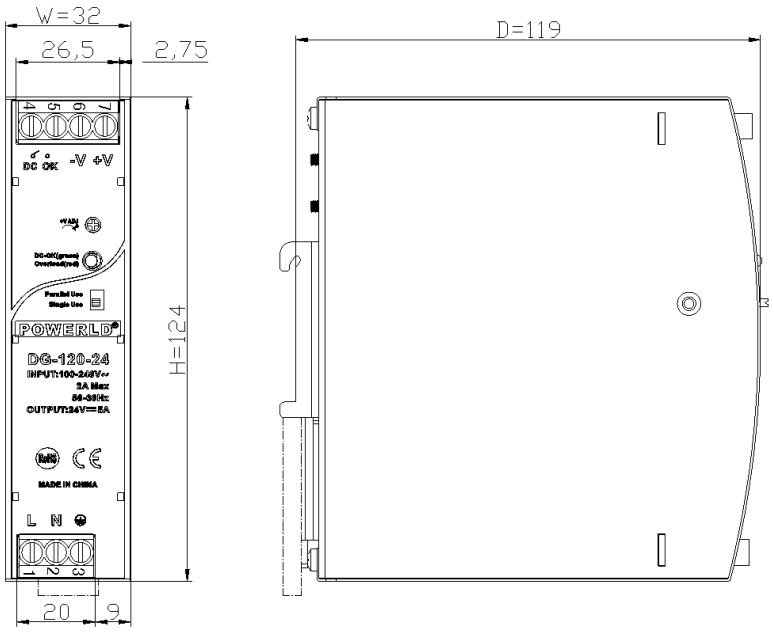
SPECIFICATION

MODEL			DG-120-12	DG-120-24	DG-120-48
OUTPUT	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 Note 2	0~70°C	≤100mV	≤120mV	≤240mV
		-25°C	≤200mV	≤240mV	≤240mV
	Voltage ADJ. Range		12~14V	24~28V	48~56V
	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%		
INPUT	Voltage Range		85Vac~264Vac		
	Frequency Range		47Hz~63Hz		
	Power Factor (typical)		0.99/100Vac 0.95/230Vac		
	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		
PROTECTION	Over Load		110%~150% of rated current, Constant current limiting for some time(150% of rated current, last 3S) then PS stop		
	Over voltage		15~18V	29~33V	58~65V
			Protection type: Hiccup mode, Auto recovery		
	Over temperature		100±5°C, detect on heat sink of power transistor; shut down O/P, auto recovery after temperature goes down.		
	Short Circuit		Long-term mode, auto recovery		
ENVIRONMENT	Operating amb. Temp. & Hum.		-25°C~70°C; 20%~90%RH No condensing		
	Storage Temp. & Hum.		-40°C~85°C; 5%~95%RH No condensing		
SAFETY &EMC Note 3	Safety Standards		meet UL508, UL60950, EN60950-1		
	Withstand Voltage		Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:2.5KVac; ≤10mA. Secondary-PG:0.5KVac≤10mA.		
	Isolation Resistance		≥100M 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 EN61000-4-2,3,4,5,6,8,11; heavy industry level		

OTHERS	MTBF (MIL-HDBK-217F)	More than 300,000Hrs (25°C, Full load)
	Dimension (W*H*D)	**32*124*119mm**
	Packing	28pcs/CTN,18.02Kgs, 0.04cbm
	Cooling method	Cooling by free air convection
Additional function	Power boost	150% of rated current
	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
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 SPS is considered a component which will be installed into final equipment. We cannot guarantee that the final equipment will meet EMC directives, Final product manufactures must be re-confirm that their product meets EMC directives	

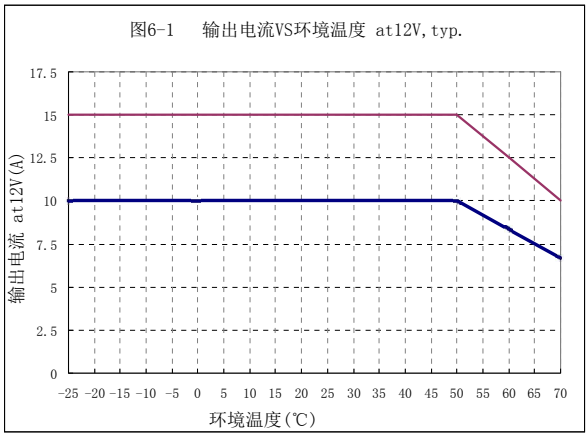
■ Mechanical Specification

Unit: mm



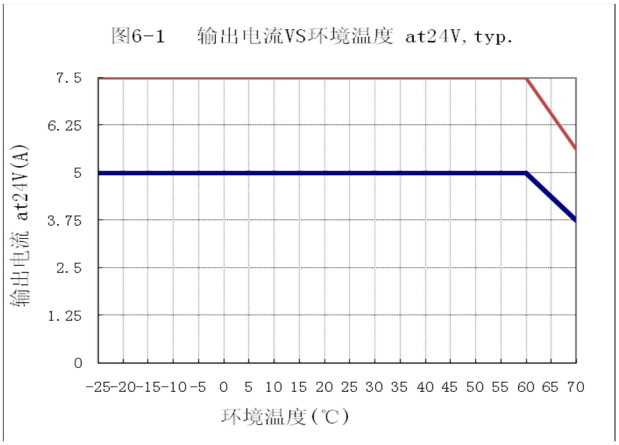
■ Derating Curve

For DG-120-12:



Red line for short time working;
Blue line for continual working

For DG-120-24:



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