新星 POWERLD® 120Watts Single Output Industrial DIN Rail Power Supply **DG-U120S12**

Features:

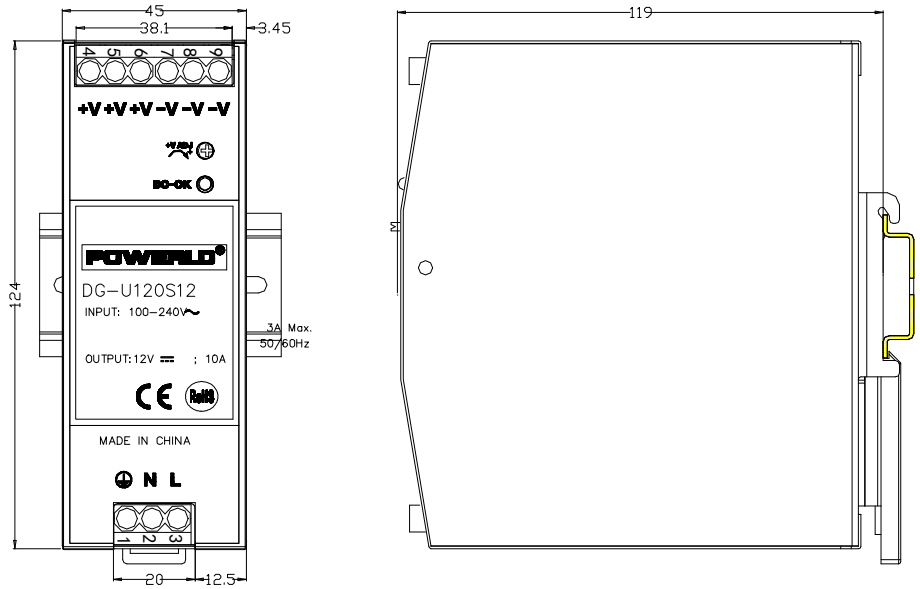
- Universal AC input range(90~264Vac)
- High efficiency up to 85%
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20℃~70℃)
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim,45mm width
- 2 years warranty

CE ROHS

MODEL			DG-U120S12
OUTPUT	DC Output		12V
	Rated Current		10A @ 12V ; 9A @14V
	Current Range	Note 1	0~10A
	Ripple and Noise Note 2	0~70℃	≤120mV
		-20℃	≤240mV
	Voltage ADJ. Range		12~14V
	Voltage Accuracy		±1.0%
	Line Regulation		±0.5%
	Load Regulation		±1.0%
	Set-up Time		<1.2S@230Vac ; <2.5S@115Vac
	Hold up Time		≥10mS@115Vac; ≥20mS@230Vac Full load
	Temperature Coefficient		±0.03%/℃
	Overshoot and Undershoot		<5.0%
INPUT	Voltage Range		90Vac~264Vac
	Frequency Range		47Hz~63Hz
	Efficiency (Typical)		85%
	AC Current (max.)		<2.7 A/115VAC ; <1.35A/230VAC
	Inrush Current (Typical)		20A/115Vac ; 35A/230Vac Cold start
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA
PROTECTION	Over Load		10.5A~13A, constant current
	Over voltage		15~18V, shut down, re-power on.
	Over temperature		shut down o/p voltage, re-power on to recover
	Short Circuit		Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.		-20℃~70℃; 20%~90%RH No condensing
	Storage Temp. & Hum.		-40℃~85℃; 5%~95%RH No condensing
SAFETY &EMC Note 3	Safety Standards		meet GB4943, EN60950
	Withstand Voltage		Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:2KVac; ≤10mA. Secondary-PG:0.5KVac≤10mA.
	Isolation Resistance		≥10M ohms
	EMC Emission		Compliance to EN55022, EN55024, FCC PART 15 Class B (according to POWERLD test condition)
	Harmonic Current		Compliance to EN61000-3-2, CLASS A
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,11; heavy industry level
OTHERS	MTBF (MIL-HDBK-217F)		More than 500,000Hrs (25℃, Full load)
	Dimension (W*H*D)		**45*124*119mm**
	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℃ 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



1, Instruction of the AC Input Connectors

Tag Number	Function	Connector	Requirement for Cables	Max. Torque
1	⏚	6.35 3P	20-10AWG	5Kgf.cm (max)
2	N			
3	L			

2, Instruction of the DC Input Connectors

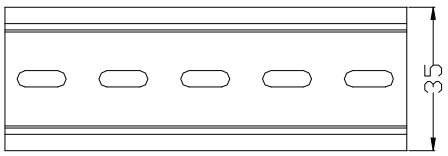
Tag Number	Function	Connector	Requirement for Cables	Max. Torque
4/5/6	+V	6.35 6P	20-10AWG	5Kgf.cm (max)
7/8/9	-V			

Notice:

1, Dimensional Unit: mm

2, Unmarked Tolerance is ±1mm

3, Choose the best installation method.



Admissible Din-Rail: TS35/7.5 or TS35/15