新星 POWERLD 960Watts Single Output Industrial DIN Rail Power Supply Features:

DG-960 Series



Universal AC input range(85~264Vac)

- Support 1+1 or N+1 redundant system (suggest to use
- redundancy modules.)
- ➢ Built-in active PFC,PF≥0.98
- High efficiency up to 94.5%
- Built-in current sharing function
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- ➤ Wide operating ambient temp (-25°C~70°C)
- Altitude up to 6000m
- 150% peak load capacity
- Easy Fuse Tripping due to High Overload Current
- Built-in DC OK relay contact
- Remote control output voltage
- > Internal fault diagnose through LED light
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- > PCB soldering side with conformal coating
- Suitable for critical applications
- Ultra-slim,140mm width
- Free air convection
- 3 years warranty

SPECIFIC	AHON				
MODEL	1		DG-960-24	DG-960-48	
OUTPUT	DC Output		24V	48V	
	Rated Current		40A	20A	
	Current Range Note 1		0~40A	0~20A	
	Ripple and Noise	0~70° ℃	≤240mV	≤480mV	
	Note 2	-25° ℃	≤480mV	≤960mV	
	Voltage ADJ. Range		24~28V	48~54V	
	Voltage Accuracy		±3.0%		
	Line Regulation		±0.5%		
	Load Regulation		±1.0%		
	Set-up Time		<1S@230VAC <2S@100VAC full load		
	Hold up Time		≥20mS(230Vac input, Full load)		
	Temperature Coefficient		±0.03%/°C		
	Overshoot and Undershoot		<5.0%		
	Voltage Range		85Vac~264Vac, 220Vdc-370Vdc		
	Frequency Range		47Hz~63Hz		
	Power Factor (typical)		0.99/100Vac 0.98/230Vac full load		
INPUT	Efficiency (Typical) @ 230Vac		94.4%	94.5%	
	AC Current (max.)		<11 A/100Vac <5.0A/230Vac	<10 A/100Vac <5.0A/230Vac	
	Inrush Current (Typical)		<30A/100Vac <60A/230Vac Cold start		
	Leakage Current		≤1.18mA/2.82mA TN- TT-mains/IT-mains (264Vac input, 50Hz)		
	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		
PROTECTION	Over voltage		29~33V, hiccup mode, Auto recovery	56~63V, hiccup mode, Auto recovery	
	Over temperature		115±5°C, detect on temperature controller; 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		
ENVIRONMENT	Storage Temp. & Hum.		-40°C~85°C; 5%~95%RH No condensing		
	Safety Standards		meet UL508, UL60950, EN60950		
SAFETY &EMC Note 3	Withstand Voltage		Primary-Secondary: 3.0KVac/20mA .Primary-PG: 2.5KVac/20mA. Secondary-PG: 0.5KVac/40mA.		
			Output-DC OK: 0.5KVac/1mA		
	Isolation Resistance		10M ohms		
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SPECIFICATION



POWERLD² 960Watts Single Output Industrial DIN Rail Power Supply

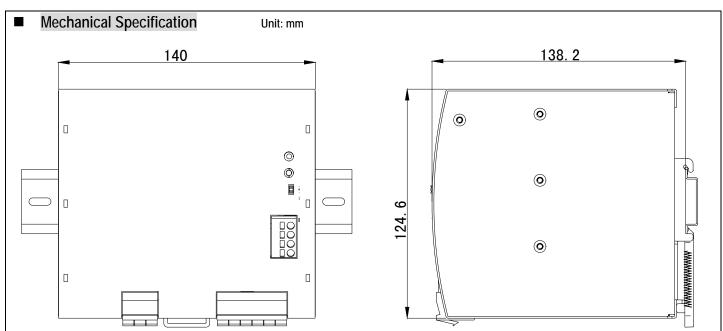
DG-960 Series

	EMC Emission	Compliance to EN55022, EN55024, FCC PART 15 CLASS A			
	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 300,000Hrs (25°C, Full load) MIL-217 Method 2 Components Stress Method			
	Dimension (L*W*H)	140*124.6*138.2mm			
OTHERS	Packing	6pcs/CTN, 15Kgs/CTN, 0.04cbm			
	Cooling method	Cooling by free air convection			
	Power boost	150% of rated current			
	Parallel function	support			
		V On: when output voltage is up to 90% of rated output voltage			
	DC-OK	V Off: when output voltage is down to 85% of rated output voltage			
Additional	DC-OK relay contact rating	Max 30V/1A or 60V/0.3A or 30Vac/0.3A Resistive load			
function	DC OK LED	Green			
	Over lead LED	Red, when output voltage goes down to 85% of rated voltage, overload LED flicker			
	Over load LED	When output voltage goes up to 90% of rated voltage, overload LED goes out			
	Shut down signal	Remote shut down output voltage			
	Remote control output voltage	Remote control/adjust output voltage			
NOTE	1. All parameters NOT specially me	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.cn.	http://www.powerld.com.cn.			

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LED light:

	LED	DC OK relay contact
Normal condition	Green	On
During extra power	Green	On
Overload(Hiccup mode)	Red, flicker	Off
Short circuit	Red, flicker	Off
Over temp. shut down	Red, flicker	Off
Active remote shut down input	Red, flicker	Off
No input	OFF	Off

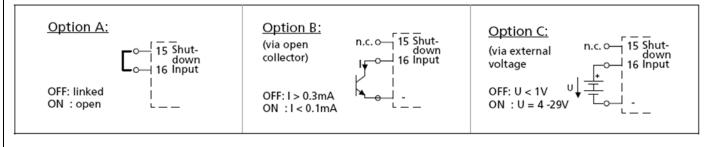
Shut down signal input:

This function allows a signal or external voltage to shut down output voltage.

Under shut down condition, output voltage<2V and output power<0.5W.

When parallel using, the voltage must be <1V between V- terminal blocks of different units.

Mark: if select C, please don't use limited diodes.



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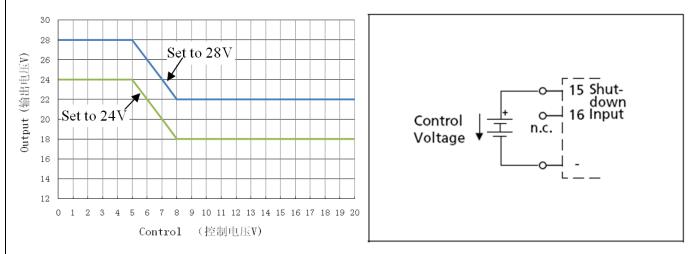
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DG-960-24:

Remote control output voltage:

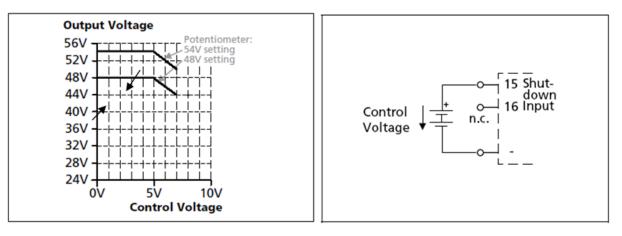
This function can adjust output voltage, type: 18~28Vdc,pls see below:



DG-960-48:

Remote control output voltage:

This function can adjust output voltage, type: 44~54Vdc,pls see below:

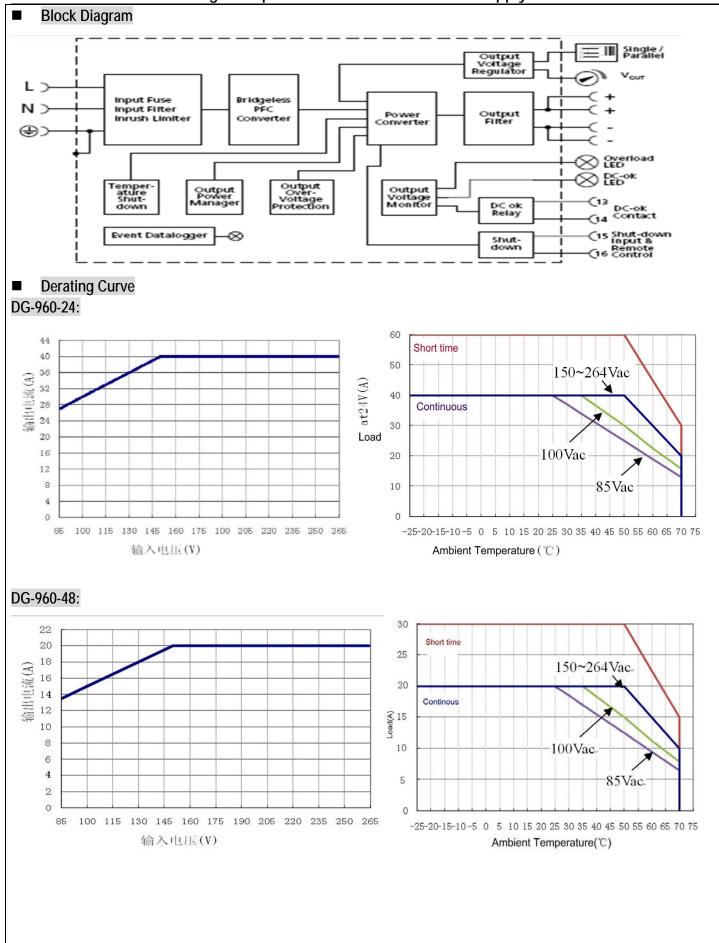


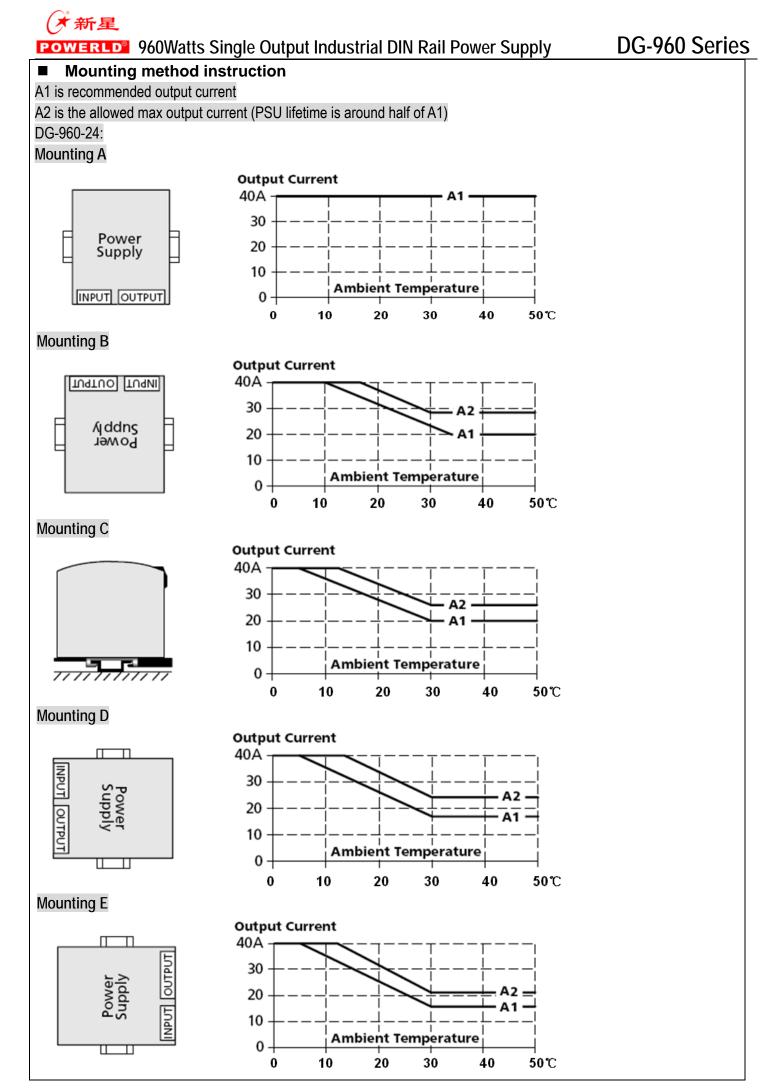
	Input/output terminal	DC-OK,shut-down
Туре	Spring connector	Spring connector
Solid Wire	0.5-6mm ² 0.15-1.5mm ²	
Strand Wire	0.5-4mm ²	0.15-1.5mm ²
Wire Spec	AWG20-10	AWG26-14
Max Wire Diameter	2.8mm	1.5mm
Stripping length	7mm	7mm
Screwdriver	/	3mm Straight screwdriver(Open spring)

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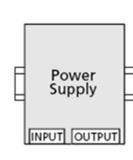


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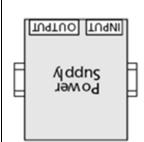


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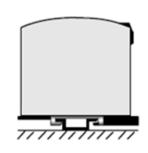
DG-960-48: Mounting A



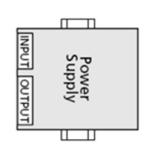
Mounting B



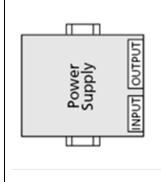
Mounting C

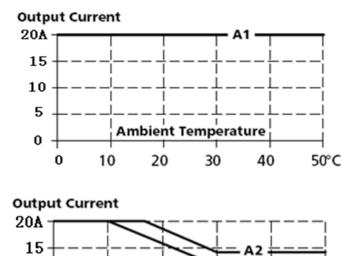


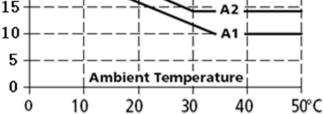
Mounting D



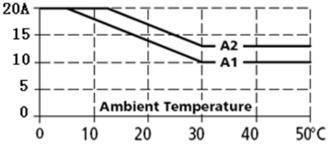
Mounting E



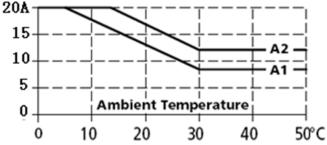




Output Current



Output Current



Output Current

