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≥0.98
- 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℃~70℃)
- 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

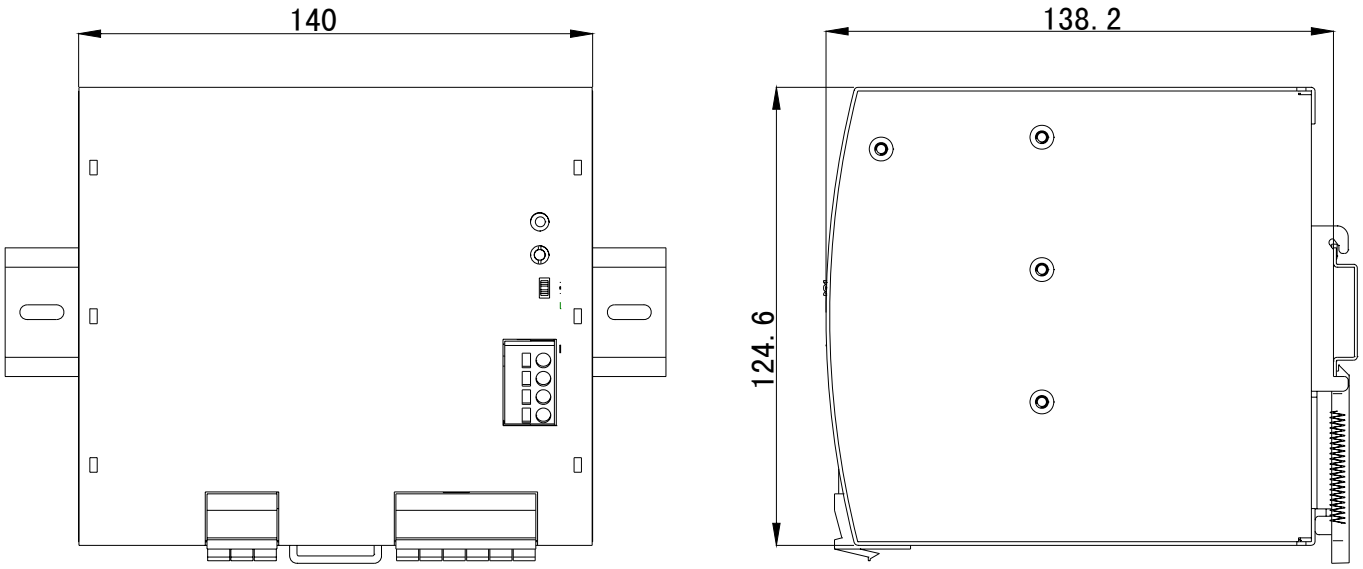
SPECIFICATION

MODEL			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 Note 2	0~70℃	≤240mV	≤480mV
		-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%/℃	
	Overshoot and Undershoot		<5.0%	
INPUT	Voltage Range		85Vac~264Vac, 220Vdc-370Vdc	
	Frequency Range		47Hz~63Hz	
	Power Factor (typical)		0.99/100Vac 0.98/230Vac full load	
	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)	
PROTECTION	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	
	Over voltage		29~33V, hiccup mode, Auto recovery	56~63V, hiccup mode, Auto recovery
	Over temperature		115±5℃, 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℃~70℃； 20%~90%RH No condensing	
	Storage Temp. & Hum.		-40℃~85℃； 5%~95%RH No condensing	
SAFETY &EMC Note 3	Safety Standards		meet UL508, UL60950, EN60950	
	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	

	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
OTHERS	MTBF (MIL-HDBK-217F)	More than 300,000Hrs (25℃, Full load) MIL-217 Method 2 Components Stress Method
	Dimension (L*W*H)	140*124.6*138.2mm
	Packing	6pcs/CTN, 15Kgs/CTN, 0.04cbm
	Cooling method	Cooling by free air convection
Additional function	Power boost	150% of rated current
	Parallel function	support
	DC-OK	V On: when output voltage is up to 90% of rated output voltage
		V Off: when output voltage is down to 85% of rated output voltage
	DC-OK relay contact rating	Max 30V/1A or 60V/0.3A or 30Vac/0.3A Resistive load
	DC OK LED	Green
	Over load LED	Red, when output voltage goes down to 85% of rated voltage, overload LED flicker 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 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 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.	

■ Mechanical Specification

Unit: mm



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.