


RoHS

Key features

- Ultra wide input voltage range: 200-1200Vdc, and support AC/DC input
- Low ripple and noise
- Over load, short circuit protection
- High efficiency, density, fine quality and low price
- Industrial/military design
- Specially designed matching for photovoltaic, wind power generation etc
- 100% test and work
- 3 Years product warranty

DM70 series --- a metal mesh special power supply offered by Zhongyiguang. The output power of this series module power supply is 70 W, with extremely low no-load loss ($< 0.6W$), low leakage current, which is only 1mA, small size (159*99*38mm) and isolated pressure up to 3kv, etc. The product is safe and reliable, which has a good EMC. EMC and safety specifications meet the UL1012, EN60950, UL60950 and other related standards. This series of products are widely used in smart home, high-end decorative lighting, medical, industrial, office and civil industries, such as applied to a relatively harsh environment electromagnetic compatibility must refer to the application circuit.

Electrical specifications

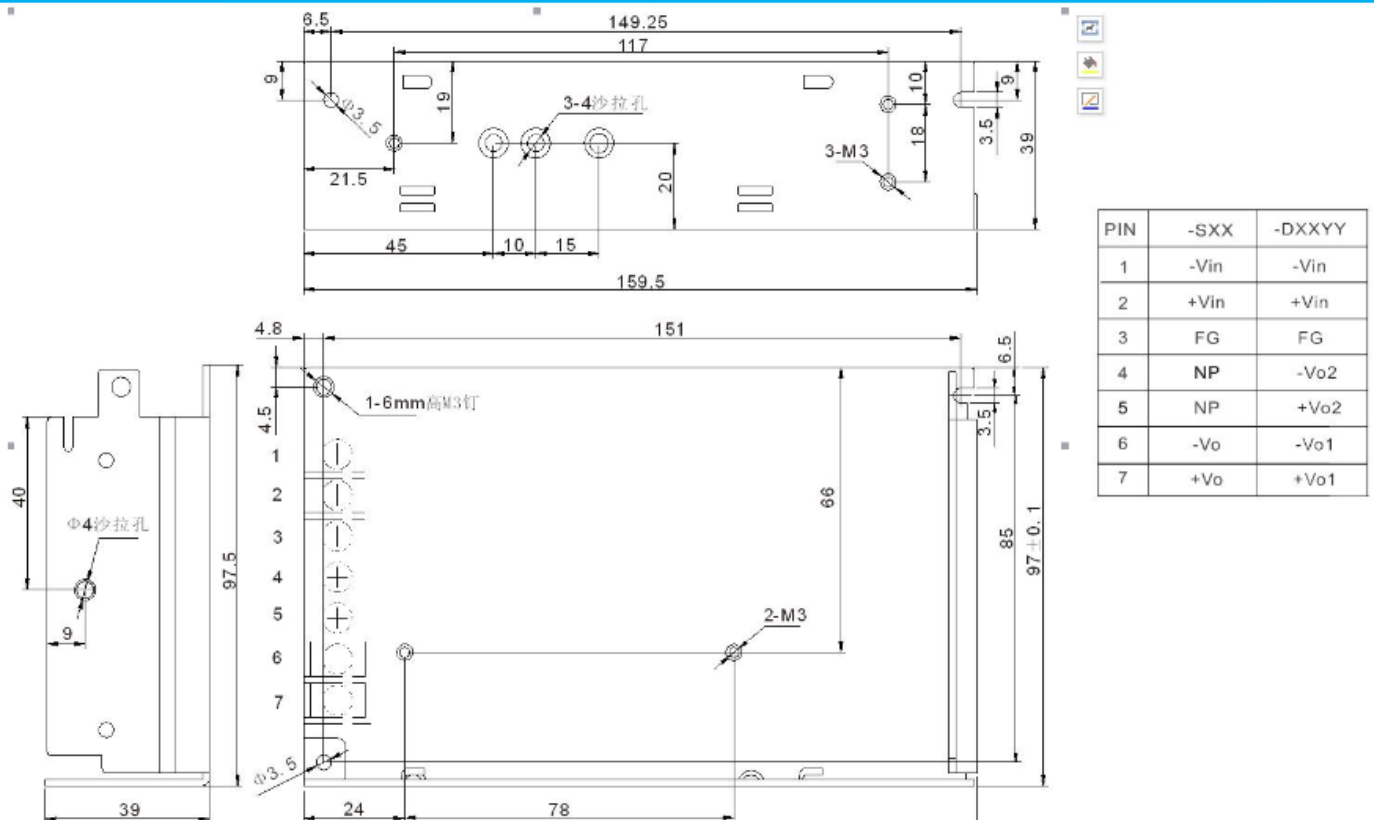
Model	Input voltage	Output Power (W)	Output voltage(V)		Output current(A)		MAX capacitive load(μF)		Ripple(mv)	Efficiency (%)
			V ₁	V ₂	A ₁	A ₂				
DM70-700D15N19	700(200-1200)	63.8	V ₁ =15	V ₂ =-19	A ₁ =4	A ₂ =0.2	470	100	100	76
DM70-700D1209	700(200-1200)	73.8	V ₁ =12	V ₂ =9	A ₁ =6	A ₂ =0.2	470	100	100	74
DM100-600S12	600(300-1000)	96	V ₁ =12		A ₁ =8		470		100	76
DM100-600S15	600(300-1000)	90	V ₁ =15		A ₁ =6		470		100	76
DM100-600S24	600(300-1000)	96	V ₁ =24		A ₁ =4		100		100	80
DM100-600S48	600(300-1000)	90	V ₁ =15		A ₁ =6		470		100	80

General features

Output	Output voltage accuracy	$\pm 2.0\%$
	Source effect	$\pm 1.0\%$
	Load effect	$\pm 1.0\%$
Input	Input voltage range	DM70(200 ~ 1200VDC) DM100(300-1000)
	Input current(TYP)	DM70 0.35A/300VDC
		DM100 0.45A/300VDC
	Inrush current(TYP)	Inrush current 30 A / 600VDC
Leakage current(TYP)	$< 1mA$ at 230VAC/50Hz	
Protection	Over-current ($\geq 110\%$) and short circuit protection, automatic recovery after troubleshooting	
Work	Operating Temperature	$-40 \sim +85^{\circ}C$ (According to the output load reduction curve)

environment	Humidity	85% .RH max
	Storage Temperature	-40 ~ +105, 10 ~ 95% RH
	Temperature coefficient	0.03%/ (0~ 50°C)
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes
Safety and EMC (Note:3)	Safety Standard	Conform to UL1012,EN60950,UL60950
	I/O-Isolation voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:>100M Ohms/500VDC 25°C 70% RH
	EMI / RFI conducted	EN55011, EN55022 (CISPR22)
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV
	RF	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4 level 4 2kV
	SURGE	IEC/EN 61000-4-5 level 4 1kV/2kV
Others	MTBF	1000K hrs min. MIL-HDBK-217F(25)
	Dimension	159*99*38mm (L*W*H)
Notes	1. Unless otherwise indicated of the above data,Our products are tested in the condition of TA=25°C, humidity <75%,600Vdc nominal voltage input and rated load output	
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor	
	3. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives	

Dimension



Typical application diagram