


RoHS

Key features

- Ultra wide input voltage range: 100-900Vdc, 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 and so on
- 100% test and work
- 3 Years product warranty

DM20(30)(40)series --- a metal mesh modular special power supply offered by Zhongyiguang. The output power of this series module power supply is 20 (30) (40) W, with extremely low no-load loss (< 0.6W), low leakage current,which is only 1mA, with the size of (129*99*38mm) and isolated pressure up to 1.5kv,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)	Ripple(mv)	Efficiency (%)
DM20-600S05	600(100-900)	20	5.0	4	100	74
DM20-600S12	600(100-900)	20	12.1	1.66	100	77
DM20-600S24	600(100-900)	20	24.0	0.833	100	80
DM30-600S05	600(300-900)	30	5.0	6	100	75
DM30-600S12	600(300-900)	30	12.1	2.5	100	78
DM30-600S24	600(300-900)	30	24.0	1.25	100	81
DM40-600S05	600(300-900)	35	5.0	7	100	75
DM40-600S12	600(300-900)	40	12.1	3.33	100	78
DM40-600S24	600(300-900)	40	24.0	1.66	100	81

General features

Output	Output voltage accuracy	±2.0%		
	Source effect	±1.0%		
	Load effect	±1.0%		
	Starting time (TYP)	100ms/230VAC	200ms/115VAC at full load	
	Output hold time (TYP)	40ms/230VAC	15ms/115VAC at full load	
Input	Input voltage range	300 ~ 900VDC (220 ~ 640VAC)		
	Input frequency range	0 ~ 63Hz		
	Input current (TYP)	DM20-600SXX	44m A / 600Vdc	75m A / 420VAC
		DM30-600SXX	66m A / 600Vdc	115m A / 420VAC



		DM40-600SXX	83mA / 600Vdc	146mA / 420VAC
	Inrush current (TYP)	Inrush current 30 A / 600VDC	30 A / 420 VAC	
	Leakage current (TYP)	< 1mA at 230VAC/50Hz		
Protection	Over-current and short circuit protection, automatic recovery after troubleshooting			
Work environment	Operating Temperature	-40 ~ +85°C (According to the output load reduction curve)		
	Humidity	85% .RH max		
	Storage Temperature	-40 ~ +85, 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:1.5KVAC	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 4kV		
	SURGE	IEC/EN 61000-4-5 level 4 2kV/4kV		
Others	MTBF	1000K hrs min.	MIL-HDBK-217F(25)	
	Dimension	129*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

