



Key features

- Ultra wide input voltage range: 100-1000Vdc, and support AC/DC input
- Low ripple and noise
- Over load protection, short circuit protection
- High efficiency, high density, fine quality and low price
- Industrial/military design
- Output short circuit lock, need power reboot
- Specially designed matching for photovoltaic, wind power generation and so on
- 100% test and work
- 3 Years product warranty

DP15 series --- a modular special power supply offered by Zhongyiguang. The output power of this series module power supply is 15 W, with isolated pressure up to 2.5kv, etc. The product is safe and reliable, which has a good EMC. EMC and safety specifications meet the IEC/EN61000-4, CISPR22/EN55022, UL60950/EN60950/EN60601 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

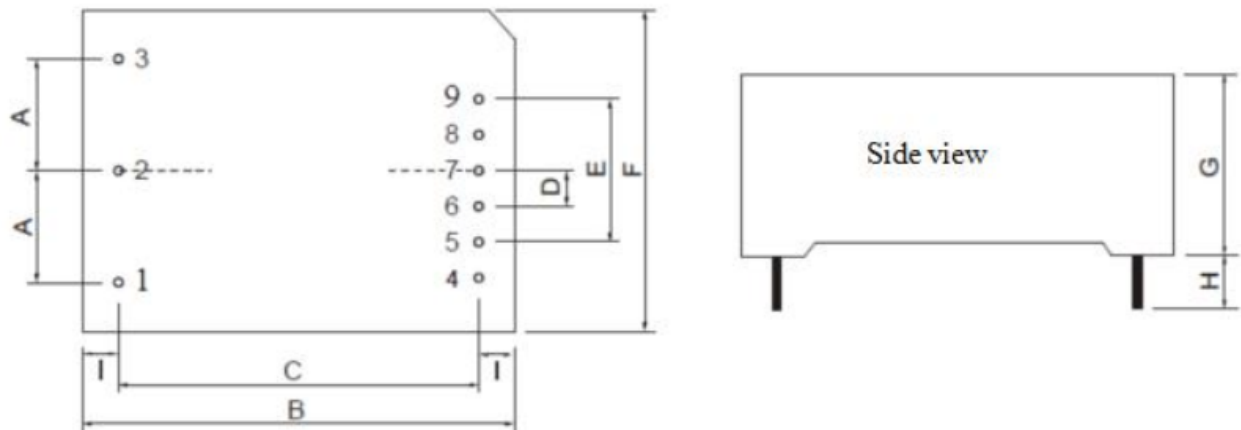
Model	Input voltage	Output Power (W)	Output voltage(V)		Output current(A)		MAX capacitive load(μ F)		Ripple(mv)	Efficiency (%)
			Main	Auxiliary	Main	Auxiliary				
DP15-600S05	600(100-1000)	15	V ₁ =5.0	V ₂ =0	A ₁ =3	A ₂ =0	100	0	100	76
DP15-600S12	600(100-1000)	15	V ₁ =12.1	V ₂ =0	A ₁ =1.25	A ₂ =0	470	0	100	78
DP15-600S15	600(100-1000)	15	V ₁ =15.0	V ₂ =0	A ₁ =1.0	A ₂ =0	470	0	100	79
DP15-600S24	600(100-1000)	15	V ₁ =24.0	V ₂ =0	A ₁ =0.625	A ₂ =0	100	0	100	80
DP15-600D12	600(100-1000)	15	V ₁ =+12	V ₂ =-12V	A ₁ =0.625	A ₂ =0.625	100	100	100	79
DP15-600D15	600(100-1000)	15	V ₁ =+15	V ₂ =-15V	A ₁ =0.5	A ₂ =0.5	100	100	100	79

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	90 ~ 264VAC	80 ~ 370VDC
	Input frequency range	47 ~ 440Hz	

	Input current (TYP)	285m A / 115VAC 175m A / 230VAC
	Inrush current (TYP)	30 A / 230 VAC
	Recommended values for External Fuses	10Ω/2W
	Leakage current (TYP)	< 0.1mA at 265VAC/50Hz
Protection	Over-current and short circuit protection, automatic recovery after troubleshooting	
Work environment	Operating Temperature	—40 ~ +70 °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	EN60950,EN60601,UL60950
	I/O-Isolation voltage	≥2500Vac
	Isolation resistance	500MΩ at 500Vdc
	EMI / RFI conducted	EN55011, EN55022 (CISPR22)CLASS B (Note: See the application circuit for details)
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV (Note: See the application circuit for details)
	RF	IEC/EN 61000-4-3 (Note: See the application circuit for details)
	EFT	IEC/EN 61000-4-4 level 4 4kV (Note: See the application circuit for details)
Others	MTBF	1000K hrs min. MIL-HDBK-217F(25)
	Dimension	50.80*25.40*15.50mm
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature	
	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



Shell size(Unit: mm)

A	B	C	D	E	F	G	H	I
20.0	70.0	62.0	5.75	23.0	48.0	23.5	≥6.0	4.0

Remark: Size of terminal section: 1.0mm, Terminal tolerance: 0.1mm, Other tolerance: ±0.5mm

Pin definition

Serial model	1	2	3	4	5	6	7	8	9
DP15-600D12/15	NO PIN	-Vin	+Vin	NO PIN	-Vo2	NO PIN	COM	NO PIN	+Vo1
DP15-600S05	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo