



Key features

- Low ripple, noise and small size
- Over load ,short circuit protection
- High efficiency,density,fine quality and low price
- Industrial design
- Lower power, RoSH
- 100% test and work
- 3 Years product warranty



RoHS

Electrical specifications

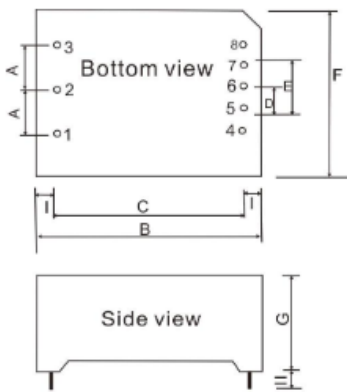
Model	Input voltage	Output Power(W)	Output voltage(V)		Output current(A)	Ripple(mv)		Efficiency (%)
			Vo1=5	Vo2=12		13mVp-p	110mVp-p	
DP15-100D0512	90-264Vac	15	Vo1=5	Vo2=12	1.5	13mVp-p	110mVp-p	79

General features

Output	Output accuracy	±2.0% @100% load	±5.0% @100% load
	Line regulation	±1.0% @100% load	±2.0% @100% load
	Load regulation	±1.0% @10-100% load	±5.0% @10-100% load
	Setup rise time(TYP)	100ms/100VDC at full load	
	Output hold-up time(TYP)	23ms/100VDC at full load	
Input	Input voltage range	30-200VDC(30-140VAC)	
	Input frequency	47 ~ 440Hz	
	Input current(TYP)	0.7A/30VDC	
	Inrush current(TYP)	30 A / 230 VAC	
	Recommended values for External Fuses	10Ω/2W	
Protection	Leakage current(TYP)	<0.1mA at 265VAC/50Hz	
	Over current protection	110%-120% load , Recovers automatically after fault condition is removed.	
	Short circuit protection	Recovers automatically after fault condition is removed.	
Working environment	Operating temperature	-40 ~ +85 °C (According to the output load derating curve to use)	
	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 standards	UL1012,EN60950,UL60950
	I/O-isolation voltage	I/P-O/P:3.0KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	insulation resistance	I/P-O/P,I/P-FG,O/P-FG:> 100M Ohms/500VDC 25°C 70% RH
	EMI / RFI conducted	Accord with EN55011, EN55022 (CISPR22)
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV
	RS	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4 level 4 4kV
	Surge	IEC/EN 61000-4-5 level 4 2kV
Others	MTBF	168K hrs min. MIL-HDBK-217F(25)
	Dimension	62*45*22.5mm (L*W*H)
Notes	1. Unless otherwise indicated of the above data,Our products are tested in the condition of TA=25o°C, humidity <75%,230Vac 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.	

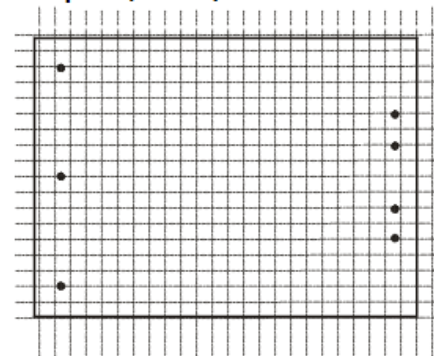
Dimension



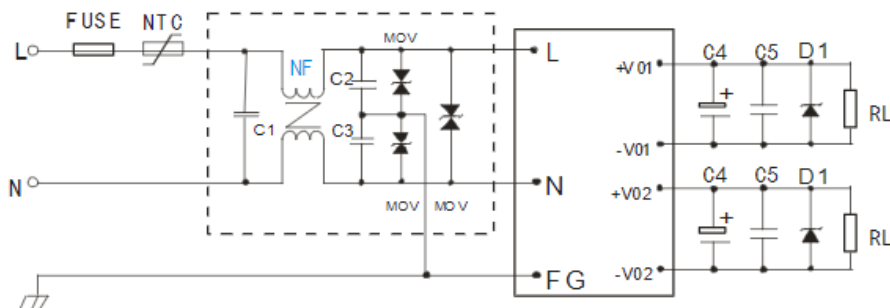
	Shell size	Pin	Pin function
A	17.5	1	FG
B	62.0	2	AC(N)
C	54.0	3	AC(L)
D	10.0	4	-Vo
E	20.0	5	No Pin
F	45.0	6	COM
G	22.5	7	No Pin
I	≥ 4.0	8	+Vo

Remark: unit of measurement:mm
Size of terminal section:1.00mm
Terminal to larence: ± 0.1mm
No to larence:± 0.5mm
Module weight:80g(typical value)

PCB LAYOUT
Remark:Thefigur2.54mmper square(100mil)



Block diagram



Note:

- The output filter capacitor C4 is electrolytic capacitor, recommend using of high frequency and low resistance of electrolytic capacitors, the capacity and the current flowing-through need refer to the technical specifications provided by the manufacturer. Capacitance voltage derating is greater than 80% .C5 is use to remove high frequency noise.TVS D1 is used for protecting flow-up circuit (when module be abnormal) and recommended to use.
- EMC filter used in the dashed box is to meet the higher requirements, if it is used in general applications, it can be omitted.