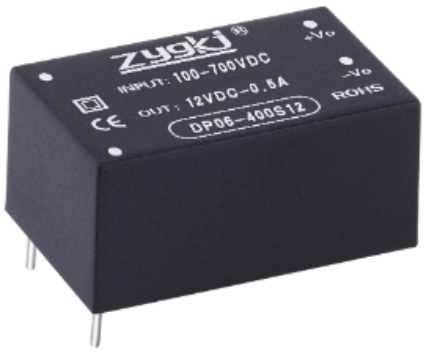
Special Power supply
6W DP06 SERIES



Key features

- Input voltage: 305 Vac,50/60Hz
- Volume only 30*20*15mm
- Low ripple and noise
- Output overload and short circuit protection
- Industrial design
- Lower power, RoHS , no load loss < 0.1W
- 100% test and work
- 3 Years product warranty

CE
RoHS

DP06-400S series --- a super small volume modular power supply offered by Zhongyiguang. The output power of this series module power supply is 6W, with extremely low no-load loss (about 60mW), low leakage current,which is only 0.1mA, small size (32*20*15mm) and isolation voltage up to 3kv,etc. The product is safe and reliable, which has a good EMC. This series of products are widely used in industrial, office and civil industries. If applied to a relatively harsh environment electromagnetic compatibility, it must be referenced the application circuit.

Electrical Specifications

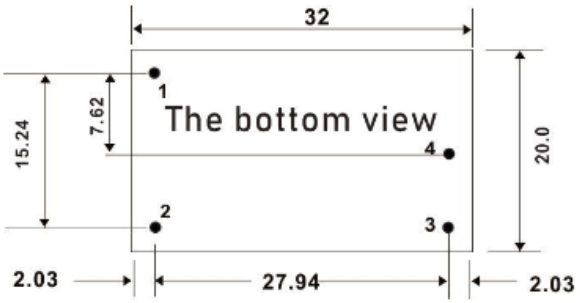
Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
DP06-400S05	85~ 500VAC 100 ~ 700VDC	6	5.0	1.2	100	76
DP06-400S09		6	9.0	0.66	100	80
DP06-400S12		6	12	0.5	100	81
DP06-400S15		6	15	0.4	100	82
DP06-400S24		6	24	0.25	100	83

General Features

Output	Voltage Accuracy	±2.0%
	Line regulation	±1.0%
	Load regulation	±1.0%
	Setup rise time(TYP)	100ms/230VAC 200ms/115VAC at full load
	Output hold-up time(TYP)	40ms/230VAC 15ms/115VAC at full load
Input	Input voltage range	85~ 500VAC 100 ~ 700VDC (Note: details in the application circuit)
	Input frequency	47 ~ 440Hz
	Input current(TYP)	23m A / 230VAC (Note: details in the application circuit)
	Inrush current(TYP)	The circuit (NTC) is limited to below 30A
	Recommended value of external fuse	Safety resistance : 15Ω/2W
	Leakage current(TYP)	< 0.1mA at 265VAC/50Hz
Protection	Over-voltage, over-current, short circuit protection, self recovery after troubleshooting.	
Work environment	Operating temperature	—40 ~ +85 ℃ (According to derating curve of output load)
	Humidity	85% .RH max
	Storage temperature	–40 ~ +85, 10 ~ 95% RH
	Temperature coefficient	0.03%/ (0~ 50℃)
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes
Safety and EMC (Note:3)	Safety standards	EN60950,EN60601,UL60950
	I/O-isolation voltage	I/P-O/P:3000VAC

	Isolation resistance	I/P-O/P>100M Ohms/500VDC 25℃ 70% RH
	EMI / RFI conducted	EN55011, EN55022 (CISPR22) CLASS B (Note: details in the application circuit)
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV (Note: details in the application circuit)
	RF	IEC/EN 61000-4-3 (Note: details in the application circuit)
	EFT	IEC/EN 61000-4-4 level 4 4kV (Note: details in the application circuit)
	Surge	IEC/EN 61000-4-5 level 4 2kV
Others	MTBF	200K hrs min. MIL-HDBK-217F(25)
	Size	32*20*15mm (L*W*H)
Notes	1. In addition to the special description, the above data are measured at the environment of TA=25℃, humidity less than 75%, input nominal voltage 230Vac and output rated load;	
	2. Ripple and noise are measured by using 300mm twisted pair and referring to the connection of the manual application circuit in the case of bandwidth 20MHz.	
	3. The power supply is considered as a component in the system, and it is necessary to confirm the EMC combining the terminal equipment.	

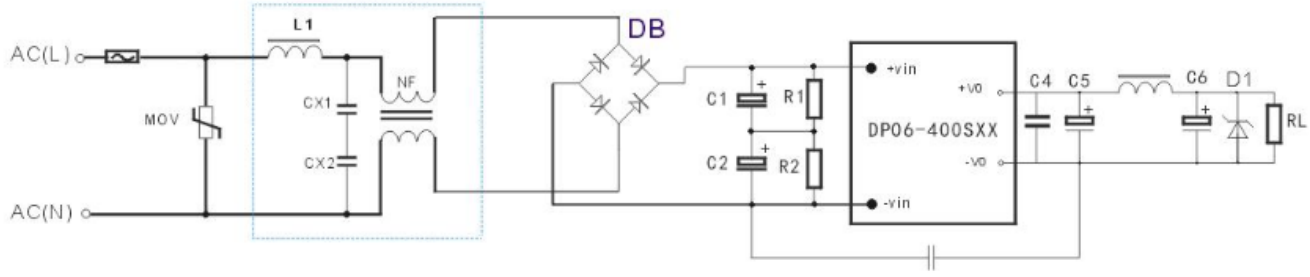
Dimension



Pin function	
1	-Vin
2	+Vin
3	+Vo
4	-Vo

Note: the size of unit: mm; terminal length: more than 4.0mm;
the terminal section size: 1.00mm; terminal tolerance: ± 0.1mm;
unlabeled tolerance: ± 0.5mm.

Typical application drawing



Note: Balance figure of R1, R2 is C1, C2 voltage, resistance 750 k Ω / 0.25 W.