



Key features

- Meet UL, CE certification requirements
- Low ripple and noise
- Over load protection ,short circuit protection
- High efficiency, high density,fine quality and low price
- Industrial/military design
- Six sides metal shielding, international standard pin
- 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 (%)
DPM20-12S03R2	12(9-18)	13.2	3.3	4	100	83
DPM20-12S05R2		20	5.0	4	100	84
DPM20-12S12R2		20	12.0	1.66	100	87
DPM20-12S15R2		20	15.0	1.33	100	87
DPM20-12S24R2		20	24.0	0.83	100	88
DPM20-12D12R2		20	±12	0.83	100	85
DPM20-12D15R2		20	±15	0.66	100	86
DPM20-24S03R2	24(18-36)	13.2	3.3	4	100	83
DPM20-24S05R2		20	5.0	4	100	84
DPM20-24S12R2		20	12.0	1.66	100	87
DPM20-24S15R2		20	15.0	1.33	100	87
DPM20-24S24R2		20	24.0	0.83	100	88
DPM20-24D12R2		20	±12	0.83	100	85
DPM20-24D15R2		20	±15	0.66	100	86
DPM20-48S03R2	48(36-72)	13.2	3.3	4	100	83
DPM20-48S05R2		20	5.0	4	100	84
DPM20-48S12R2		20	12.0	1.66	100	87
DPM20-48S15R2		20	15.0	1.33	100	87
DPM20-48S24R2		20	24.0	0.83	100	88
DPM20-48D12R2		20	±12	0.83	100	85
DPM20-48D15R2		20	±15	0.66	100	86



Electrical specifications

Input feature	project	Working condition	Min	Nominal	Max	Impulse voltage	Unit	
	Input voltage range	Nominal load		4.5	5	9	12	Vdc
				9	12	18	25	Vdc
				18	24	36	50	Vdc
				36	48	72	100	Vdc
				60	110	160	170	Vdc

Output feature	project	Working condition	Min	Nominal	Max	Unit	
	Output voltage accuracy	Positive output		-	±1%	-	-
		Negative output		-	±3%	-	-
	Output voltage balance	Double output and balance load		-	±0.5%	±1.5%	-
	Load regulation	Full load, input voltage from low to high	Positive output	-	±0.5%	±1%	
			Negative output	-	±0.5%	±1.5%	
	Power regulation	5%~100% load	Positive output	-	±0.5%	±1%	
			Negative output	-	±0.5%	±1.5%	
	Cross regulation	Double output, main road with 50% load, auxiliary road with 10%~100% load		-	-	±5%	
	Transient recovery time	25%- 50% -2 5%/ 50 %-75% -50%load step change		-	200	400	μs
	Transient response bias			-	±3%	±5%	
	Temperature drift coefficient	Full load		-	-	±0.02	%/°C
	Ripple and noise	20MHz bandwidth limited parallel line testing		-	50	100	mvp- p
	Over-current protection	Input full range, output nominal power		110	140	190	%IO
Short circuit protection	可持續,自恢复						

General feature	Project	Working condition	Min	Nominal	Max	Unit	
	I/O-isolation voltage	Input - output, test time 1 minute, leakage current is less than 1mA		1500	-	-	Vdc
	Insulation resistance	Input - output, insulation voltage 500Vdc		100	-	-	MΩ
	Working environment			- 40	-	85	°C
	Storage temperature			- 55	-	125	°C
	Store humidity			5	-	95	%RH
	Temperature of pin wave soldering	Solder joint distance 1.5mm, 10s		-	-	300	°C
	Hand welding temperature of pipe	Solder joint distance 1.5mm, 10s		-	-	425	°C
	Vibration	-		10 - 55Hz, 10G, 30Min, along X, Y and Z			
	Switching frequency	PWM pattern		-	300	-	KHz
	Mean time of failure	MIL-HDBK-217F@25°C		2X10 ⁶ h			