ZHONGYIGUANG GUANGZHOU TECHNOLOGY LTD,.

DC-DC Module Power Supply

10W DPM10R2 SERIES

CE

RoHS

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

Electrical specifications

Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
DPM10-12S03R2	12(9-18)	6.6	3.3	2	50	78
DPM10-12S05R2		10	5.0	2	50	79
DPM10-12S12R2		10	12.0	0.83	50	85
DPM10-12S15R2		10	15.0	0.66	50	86
DPM10-12S24R2		10	24.0	0.42	50	88
DPM10-12D12R2		10	±12	0.42	50	85
DPM10-12D15R2		10	±15	0.33	50	86
DPM10-24S03R2	24(18-36)	6.6	3.3	2	50	78
DPM10-24S05R2		10	5.0	2	50	79
DPM10-24S12R2		10	12.0	0.83	50	85
DPM10-24S15R2		10	15.0	0.66	50	86
DPM10-24S24R2		10	24.0	0.42	50	88
DPM10-24D12R2		10	±12	0.42	50	85
DPM10-24D15R2		10	±15	0.33	50	86
DPM10-48S03R2	48(36-72)	6.6	3.3	2	50	78
DPM10-48S05R2		10	5.0	2	50	79
DPM10-48S12R2		10	12.0	0.83	50	85
DPM10-48S15R2		10	15.0	0.66	50	86
DPM10-48S24R2		10	24.0	0.42	50	88
DPM10-48D12R2		10	±12	0.42	50	85
DPM10-48D15R2		10	±15	0.33	50	86

Electrical specifications

	project	Working condition	Min	Nominal	Max	Impulse voltage	Unit
Input feature	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

	project	Working condition		Min	Nominal	Max	Unit
Output feature	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	%/℃
	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	%I0
	Short circuit protection			Sustainable, self-healing			

	Project	Working condition	Min	Nominal	Max	Unit
General feature	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	℃
	Storage temperature		- 55	-	125	℃
	Store humidity		5	-	95	%RH
	Temperature of pin wave soldering	Solder joint distance 1.5mm, 10s	-	-	300	℃
	Hand welding temperature of pipe	Solder joint distance 1.5mm, 10s	-	-	425	℃
	Vibration	-	10 - 55Hz,10G,30Min,alongX,YandZ			
	Switching frequency	PWM pattern	-	300	-	KHz
	Mean time of failure	MIL-HDBK-217F@25℃		$2X10^6$ h		
	Cooling way	-	Natural cooling			