



Features :

- . Medical safety approved
- . Fix switching frequency at 45 KHz
- . International AC input range / full range
- . Short circuit, over-load, over-voltage protected
- . Approvals : UL / CUL / TUV / CB / CE
- . 100% full load burn-in test
- . Built-in EMI filter, low ripple noise
- . Low leakage current $\leq 0.3A$

. 3 years warranty



◆ Single output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12381	MPS45-3.3	3.3V/8A	+3%	80mV	65%	42
12382	MPS45-5	5V/8A	+3%	100mV	72%	42
12383	MPS45-7.5	7.5V/5.4A	+3%	100mV	75%	42
12384	MPS45-12	12V/3.7A	+2%	100mV	76%	42
12385	MPS45-13.5	13.5V/3.3A	+2%	100mV	76%	42
12386	MPS45-15	15V/3A	+2%	100mV	77%	42
12387	MPS45-24	24V/1.9A	+2%	100mV	78%	42
12388	MPS45-27	27V/1.7A	+2%	100mV	78%	42
12389	MPS45-48	48V/1A	+2%	100mV	78%	42

◆ Dual output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12401	MPD45-A	+5V/0.4~5A +12V/0.2~2.5A	+4% +7%	60mV 120mV	76%	46
12402	MPD45-B	+5V/0.4~5A +24V/0.2~1.8A	+4% +7%	60mV 120mV	78%	46

◆ Triple output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12411	MPT45-A	+5V/0.4~5A +12V/0.2~2.5A -5V/0.0~0.5A	+4% +7% +5%	60mV 120mV 60mV	73%	49
12412	MPT45-B	+5V/0.4~5A +12V/0.2~2.5A -12V/0.0~0.5A	+4% +7% +5%	60mV 120mV 100mV	75%	49
12413	MPT45-C	+5V/0.4~5.0A +15V/0.2~2.3A -15V/0.0~0.5A	+4% +7% +5%	60mV 120mV 100mV	75%	49



Specifications	Model	MPD-45A		MPD-45B	
		CH1	CH2	CH1	CH2
DC output voltage		5V	12V	5V	24V
Output voltage tolerance		±4%	±7%	±4%	±7%
Output rated current		3.2A	2A	3.2A	1.2A
Output current range		0.4~5A	0.2~2.5A	0.4~5A	0.2~1.8A
Ripple & noise		60mVp-p	120mVp-p	60mVp-p	150mVp-p
Line regulation		±1%	±2%	±1%	±2%
Load regulation		±3%	±4%	±3%	±4%
Rated output power		40W		44.8W	
Maximum output power		52W with 18 CFM min. Forced air convection			
Efficiency		76%		78%	
DC voltage adjustment (Volt)		CH1 : ±10%		CH1 : ±10%	
Input voltage range		90~264VAC auto switch 4~440Hz ; 127~370VDC			
AC current		1.2A/115V ; 0.7A/230V			
Inrush current		Cold start 20A/115V ; 40A/230V			
Leakage current		<0.3mA/264VAC			
Over-load protection		53~73W output power Type : hiccup shutdown Reset : auto-recovery			
Over-voltage protection		5.75~6.75 VDC on CH1			
Temperature coefficient		±0.04% /°C (0°~50°C) on +5V output			
Set-up, Rise, Hold-up time		800ms, 20ms, 20ms./230VAC 800ms, 20ms, 12ms/115VAC			
Vibration		10~500Hz, 2G 10min./1cycle, period for 60min. Each axes			
Withstand voltage		I/P-O/P: 4KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
Isolation resistance		I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100MΩ			
Working temp. & humidity		-10°C~60°C (refer to output derating curve), 20%~90% R.H.			
Storage temp. & humidity		-20°C~+85°C, 10%~95% R.H. (non-condensing)			
Dimensions		127 x 76.2 x 30 mm (Length x Width x Height) PCB only			
Weight		230 gr			
Safety standards		UL2601-1, EN6060-1 approved			
EMC standards		CISPR11 (EN55011), IEC61000-4-2,3,4,5,6,8,11 IEC61000-3-2,3 EN60601-1-2 verification			
Notes:					
-All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.					
- Tolerance include set up tolerance, line regulation, load regulation					
- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor.					
- Line regulation is measured from low line to high line at rated load.					
- If short or overload condition continues more than 10 seconds, it will damage the components					
- Mounting holes M1 & M2 should be grounded for EMI purposes					

