

**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



Specifications	Model	MPD-65A		MPD-65B	
		CH1	CH2	CH1	CH2
DC output voltage		5V	12V	5V	24V
Output voltage tolerance		$\pm 4\%$	$\pm 7\%$	$\pm 4\%$	$\pm 7\%$
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		$\pm 1\%$	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$
Load regulation		$\pm 3\%$	$\pm 4\%$	$\pm 3\%$	$\pm 4\%$
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 : $\pm 10\%$		CH1 : $\pm 10\%$	
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		$+0.04\% / ^\circ C$ ($0^\circ \sim 50^\circ C$) 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 / 100M Ω			
Working temp. & humidity		$-10^\circ C \sim 60^\circ C$ (refer to output derating curve), 20%~90% R.H.			
Storage temp. & humidity		$-20^\circ C \sim +85^\circ C$, 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



◆ Single output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12421	MPS65-3.3	3.3V/12A	+3%	80mV	66%	44
12422	MPS65-5	5V/12A	+3%	100mV	74%	44
12423	MPS65-7.5	7.5V/8A	+3%	100mV	76%	44
12424	MPS65-12	12V/5.2A	+2%	100mV	77%	44
12425	MPS65-13.5	13.5V/4.7A	+2%	100mV	78%	44
12426	MPS65-15	15V/4.2A	+2%	100mV	79%	44
12427	MPS65-24	24V/2.7A	+2%	100mV	80%	44
12428	MPS65-27	27V/2.4A	+2%	100mV	80%	44
12429	MPS65-48	48V/1.35A	+2%	100mV	80%	44

◆ Dual output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12441	MPD65-A	+5V/0.4~7A +12V/0.2~3.2A	+4% +7%	60mV 150mV	75%	53
12442	MPD65-B	+5V/0.4~6A +24V/0.2~2.6A	+4% +7%	60mV 150mV	78%	53

◆ Triple output

Stock n°	Type	Output	Tolerance	Ripple~Noise	Efficiency	P.P.
12451	MPT65-A	+5V/0.4~7A +12V/0.2~3.2A -5V/0.0~0.7A	+4% -7%~+10% +5%	60mV 120mV 60mV	73%	49
12452	MPT65-B	+5V/0.4~7A +12V/0.2~3.2A -12V/0.0~0.7A	+4% -7%~+10% +5%	60mV 120mV 100mV	75%	49
12453	MPT65-C	+5V/0.4~7A +15V/0.2~2.6A -15V/0.0~0.7A	+4% -7%~+10% +5%	60mV 120mV 100mV	75%	49

