



Features :

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

. 3 years warranty



Specifications	Model	MPT65-A			MPT65-B			MPT65-C		
		CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
DC output voltage		5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
Output voltage tolerance		$\pm 4\%$	$\pm 10.7\%$	$\pm 5\%$	$\pm 4\%$	$\pm 10.7\%$	$\pm 5\%$	$\pm 4\%$	$\pm 10.7\%$	$\pm 5\%$
Output rated current		5.5A	2.5A	0.5A	5.5A	2.5A	0.5A	5.5A	2A	0.5A
Output min. current		0.4A	0.2A	0A	0.4A	0.2A	0A	0.4A	0.2A	0A
Output max. current		7A	3.2A	0.7A	7A	3.2A	0.7A	7A	2.6A	0.7A
Ripple & noise		60mV	120mV	60mV	60mV	160mV	100mV	60mV	180mV	100mV
Line regulation		$\pm 1\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 2\%$	$\pm 1\%$
Load regulation		$\pm 3\%$	$\pm 4\%$	$\pm 1\%$	$\pm 3\%$	$\pm 4\%$	$\pm 1\%$	$\pm 3\%$	$\pm 4\%$	$\pm 1\%$
Rated output power		60W			63.5W			65W		
Maximum output power		72W with 18 CFM min. forced air convection								
Efficiency		74%			74%			74%		
DC voltage adj.		CH1 : $\pm 10\%$			CH1 : $\pm 10\%$			CH1 : $\pm 10\%$		
Input voltage range		90~264VAC auto switch 47~440Hz ; 120~370VDC								
AC current		1.6A/115V ; 1A/230V								
Inrush current		Cold start 20A/115VAC 40A/230V								
Leakage current		<0.3mA/264VAC								
Over-load protection		73~95W Type : pulsing hiccup shutdown Reset : auto-recovery								
Over-voltage protection		5.75~6.75VDC on CH1								
Temperature coefficient		$\pm 0.04\% / ^\circ C$ (0°~50°C)								
Set-up, Rise, Hold-up time		800ms, 20ms, 12ms./115VAC 800ms, 20ms, 20ms/230VAC								
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: short								
Isolation resistance		I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100M Ω								
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 42 mm (Length x Width x Height) PCB only								
Weight		280 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.
- Mounting holes M1 & M2 should be grounded for EMI purposes

**Models available :****◆ 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	74%	56
12452	MPT65-B	+5V/0.4~7A +12V/0.2~3.2A -12V/0.0~0.7A	+4% -7%~+10% +5%	60mV 160mV 100mV	74%	56
12453	MPT65-C	+5V/0.4~7A +15V/0.2~2.6A -15V/0.0~0.7A	+4% -7%~+10% +5%	60mV 180mV 100mV	74%	56

