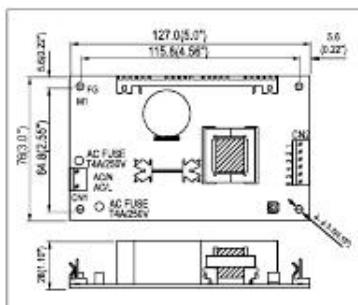


45W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- Low leakage current≤0.3mA
- Approvals: UL / CUL / TUV / CB / CE
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



127x 76x 28 mm



AC input voltage range 90~264VAC; 120~370VDC

AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC

DC adjustment range CH1: ±10% rated output voltage

Overload protection 53~75W hiccup mode, auto-recovery

Over voltage protectionCH1: 115%~135% rated output voltage

Leakage current Less than 0.3mA at 264VAC

Setup, rise, hold up time ..800ms, 30ms, 50ms at full load and 230VAC

Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute

Working temperature-10°C~60°C (refer to output derating curve)

Safety standardsUL2601-1, TUV EN60601-1, IEC60601-1 approved

EMC standardsEN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204

Connection2P,6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06

Packing0.18kg ; 72pcs/ 15.1kg / 1.35CUFT (MPS-45)

0.20kg ; 72pcs/ 17.4kg / 1.35CUFT (MPD-45)

0.21kg ; 72pcs/ 18.0kg / 1.35CUFT (MPT-45)

◆ Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-45-3.3	3.3V, 0~8.0A	±3%	80mV	65%
MPS-45-5	5V, 0~8.0A	±3%	100mV	72%
MPS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
MPS-45-12	12V, 0~3.7A	±2%	100mV	76%
MPS-45-13.5	13.5V, 0~3.3A	±2%	100mV	76%
MPS-45-15	15V, 0~3.0A	±2%	100mV	77%
MPS-45-24	24V, 0~1.9A	±2%	100mV	78%
MPS-45-27	27V, 0~1.7A	±2%	100mV	78%
MPS-45-48	48V, 0~1.0A	±2%	100mV	78%

◆ Dual Output

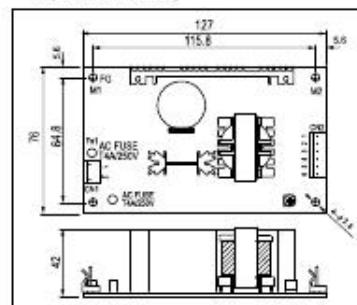
Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-45A	5V, 0.4~5.0A	±4%	60mV	76%	40W
	12V, 0.2~2.5A	±7%	120mV		
MPD-45B	5V, 0.4~5.0A	±4%	60mV	78%	45W
	24V, 0.2~1.8A	±7%	150mV		

◆ Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-45A	5V, 0.4~5.0A	±4%	60mV	73%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	60mV		
MPT-45B	5V, 0.4~5.0A	±4%	60mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
MPT-45C	5V, 0.4~5.0A	±4%	60mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

65W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- Low leakage current≤0.3mA
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



AC input voltage range 90~264VAC; 127~370VDC

AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC

DC adjustment range CH1: ±10% rated output voltage

Overload protection 73~105% hiccup mode, auto-recovery

Over voltage protectionCH1: 115%~135% rated output voltage

Leakage current Less than 0.3mA at 264VAC

Setup, rise, hold up time ..800ms, 30ms, 50ms at full load and 230VAC

Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute

Working temperature -10°C~ +60°C (refer to output derating curve)

Safety standardsUL2601-1, TUV EN60601-1, IEC60601-1 approved

EMC standardsEN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204

Connection2P, 6P/ 3.96mm pitch, Molex: 5277-02, 5273-06

Packing0.23kg ; 54pcs/ 14.6kg / 1.35CUFT (MPS-65)

0.25kg ; 54pcs/ 16.0kg / 1.35CUFT (MPD-65)

0.27kg ; 54pcs/ 16.8kg / 1.35CUFT (MPT-65)

◆ Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-65-3.3	3.3V, 0~12A	±3%	80mV	66%
MPS-65-5	5V, 0~12A	±3%	100mV	74%
MPS-65-7.5	7.5V, 0~8.0A	±3%	100mV	76%
MPS-65-12	12V, 0~5.2A	±2%	100mV	77%
MPS-65-13.5	13.5V, 0~4.7A	±2%	100mV	78%
MPS-65-15	15V, 0~4.2A	±2%	100mV	79%
MPS-65-24	24V, 0~2.7A	±2%	100mV	80%
MPS-65-27	27V, 0~2.4A	±2%	100mV	80%
MPS-65-48	48V, 0~1.35A	±2%	100mV	80%

◆ Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-65A	5V, 0.4~7.0A	±4%	60mV	75%	61W
	12V, 0.2~3.2A	±7%	150mV		
MPD-65B	5V, 0.4~6.0A	±4%	60mV	78%	66W
	24V, 0.2~2.6A	±7%	150mV		

◆ Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-65A	5V, 0.4~7.0A	±4%	60mV	74%	60W
	12V, 0.2~3.2A	+10%, -7%	120mV		
	-5V, 0.0~0.7A	±5%	60mV		
MPT-65B	5V, 0.4~7.0A	±4%	60mV	74%	64W
	12V, 0.2~3.2A	+10%, -7%	160mV		
	-12V, 0.0~0.7A	±5%	100mV		
MPT-65C	5V, 0.4~7.0A	±4%	60mV	74%	65W
	15V, 0.2~2.6A	+10%, -7%	180mV		
	-15V, 0.0~0.7A	±5%	100mV		

Open Frame

120~200W 1~4 Output Medical Type



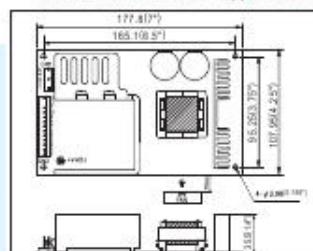
120 & 200W 1~4 Output Medical Type

- Universal AC input / Full range
- PF>0.95@230VAC (200W)
- Protections: Short circuit / Overload / Over voltage / OTP (200W)
- Leakage currents<180uA
- Built-in remote sense and remote ON/OFF control (200W)
- PG / PF signal output (optional for 120W)
- 80W / 140W free air convection, 120W / 200W with 25CFM forced air
- 100% full load burn-in test
- 3 years warranty
- Suitable for medical & IT applications

+ IEC CB CE



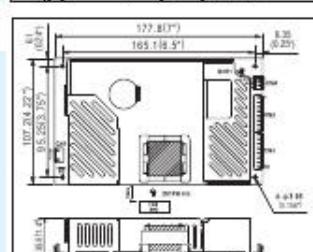
120W
177.8x108x35.5mm



+ IEC CB CE



200W
177.8x107.2x35.5 mm



- AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 60A at 230VAC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 110~160% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~140% rated output voltage
 Leakage current Less than 180uA at 264VAC
 Setup, rise, hold up time 1000ms, 20ms, 16ms at full load and 230VAC
 Withstand voltage IIP - OIP: 4kVAC, IIP - FG: 1.5kVAC, 1 minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60601-1, TUV EN60601-1, IEC60601-1 approved;
 Design refer to UL60950-1, TUV EN60950-1
 EMC standards EN55011/EN55022 class B,
 EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3,
 EN60601-1-2, ENV50204, EN61000-6-2
 Connection 5P,13P 3.96mm pitch, Molex 5273-05, 5273-13 (120W)
 3P, 20P / 3.96mm pitch, JST B3P/VH, Molex 5566-20 (MPS-200)
 3P, 8Px2 / 3.96mm pitch, JSTB3P / B8Px2-VH (MPD/T/Q-200)
 Packing 0.55kg ; 24pcs / 14.5kg / 1.04CUFT (120W)
 0.66kg ; 24pcs / 16.8kg / 1.04CUFT (200W)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-120-3.3	3.3V, 0~24A	±3%	80mV	68%
MPS-120-5	5V, 0~22A	±3%	80mV	73%
MPS-120-12	12V, 0~10A	±2%	100mV	77%
MPS-120-15	15V, 0~8.0A	±2%	100mV	79%
MPS-120-24	24V, 0~5.0A	±2%	120mV	81%
MPS-120-48	48V, 0~2.5A	±2%	120mV	82%

Model No.	Output	Tol.	R&N	Effi.
MPS-200-3.3	3.3V, 0~40A	±2%	80mV	77%
MPS-200-5	5V, 0~40A	±2%	80mV	81%
MPS-200-12	12V, 0~16.7A	±2%	100mV	84%
MPS-200-15	15V, 0~13.4A	±2%	100mV	85%
MPS-200-24	24V, 0~8.4A	±1%	150mV	86%
MPS-200-48	48V, 0~4.2A	±1%	200mV	87%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-120A	5V, 2.0~12A	±2%	80mV	75%	110W
	12V, 0.5~6.0A	±7%	120mV		
MPD-120B	5V, 2.0~12A	±2%	80mV	76%	120W
	24V, 0.3~3.2A	±8%	250mV		

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-200A	5V, 4.0~24A	±2%	80mV	82%	196W
	12V, 0.8~9.6A	±8%,-5%	120mV		
MPD-200B	5V, 4.0~24A	±2%	80mV	83%	196W
	24V, 0.4~4.8A	±6.5%	180mV		

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-120A	5V, 2.0~12A	±2%	80mV	72%	111W
	12V, 0.4~5.8A	±8%,-6%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
MPT-120B	5V, 2.0~12A	±2%	80mV	73%	110W
	12V, 0.4~5.3A	±6%	120mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPT-120C	5V, 2.0~11A	±2%	80mV	72%	119W
	15V, 0.4~4.4A	±6%,-7%	150mV		
	-15V, 0.0~1.0A	±5%	80mV		
MPT-120D	5V, 2.0~12A	±2%	80mV	74%	110W
	24V, 0.4~2.6A	±8%,-6%	300mV		
	12V, 0.0~1.0A	±5%	120mV		
MPT-200A	5V, 4.0~24A	±2%	80mV	80%	200W
	12V, 0.8~9.0A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
MPT-200B	5V, 4.0~24A	±2%	80mV	80%	196W
	12V, 0.6~7.2A	±8%	120mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPT-200C	5V, 4.0~24A	±2%	80mV	80%	201W
	15V, 0.5~5.6A	±8%	150mV		
	-15V, 0.0~2.4A	±5%	80mV		
MPT-200D	5V, 4.0~24A	±2%	80mV	81%	196W
	24V, 0.3~3.6A	±8%	180mV		
	12V, 0.0~2.4A	±5%	80mV		

Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPQ-120B	5V, 2.0~11A	±2%	80mV	71%	111W
	12V, 0.5~5.0A	±6%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPQ-120C	5V, 2.0~11A	±2%	80mV	71%	110W
	15V, 0.5~3.8A	±6%,-7%	150mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
MPQ-120D	5V, 2.0~11A	±2%	80mV	74%	120W
	12V, 0.2~1.1A	±8%,-6%	150mV		
	24V, 0.3~2.3A	±8%	300mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPQ-120E	5V, 2.0~11A	±2%	80mV	73%	109W
	12V, 0.5~3.3A	±6%	120mV		
	15V, 0.0~1.0A	±8%	80mV		
	24V, 0.0~1.0A	±5%	80mV		
MPQ-200B	5V, 3.0~18A	±2%	80mV	78%	193W
	12V, 0.7~8.4A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200C	5V, 3.0~18A	±2%	80mV	78%	190W
	15V, 0.5~6.0A	±6%	150mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		
MPQ-200D	5V, 3.0~18A	±2%	80mV	79%	195W
	24V, 0.3~3.6A	±8%	180mV		
	12V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200F	5V, 3.0~18A	±2%	80mV	81%	200W
	24V, 0.3~3.3A	±8%	180mV		
	15V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		