Astrodyne TDI
Now you have power.

65W Triple Output for Medical Type

MPT65 series

- Universal AC input
- Low leakage current ≤ 0.3mA
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 45KHz
- Cooling by free air convection
- 100% Full Load Burn-in Test

Model Number	Output Volts	Output Amps	Ripple & Noise	Line Reg	Load Reg	Min Load	Tolerance
TRIPLE OUTPUT							
MPT65-A	5 Volts(DC)	5.5 Amps	60mVpk-pk	±1.0%	±3.0%	0.4~7Amps	±4.0%
	12 Volts(DC)	2.5 Amps	120mVpk-pk	±2.0%	±4.0%	0.2~3.2Amps	+10,-7%
	-5 Volts(DC)	0.5 Amps	60mVpk-pk	±1.0%	±1.0%	0~0.7Amps	±5.0%
MPT65-B	5 Volts(DC)	5.5 Amps	60mVpk-pk	±1.0%	±3.0%	0.4~7Amps	±4.0%
	12 Volts(DC)	2.5 Amps	160mVpk-pk	±2.0%	±4.0%	0.2~3.2Amps	+10,-7%
	-12 Volts(DC)	0.5 Amps	100mVpk-pk	±1.0%	±1.0%	0~0.7Amps	±5.0%
MPT65-C	5 Volts(DC)	5.5 Amps	60mVpk-pk	±1.0%	±3.0%	0.4~7Amps	±4.0%
	15 Volts(DC)	2.0 Amps	180mVpk-pk	±2.0%	±4.0%	0.2~2.6Amps	+10,-7%
	-15 Volts(DC)	0.5 Amps	100mVpk-pk	±1.0%	±1.0%	0~0.7Amps	±5.0%

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INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC / 127-370 Volts(DC)
Frequency Range	47-440 Hz
Inrush Current, typ: (cold start)	20Amps @ 115VAC Input
	40 Amps @ 230VAC
Input Current	1.6 Amps max @ 115VAC
	1.0 Amps max @ 230VAC
Leakage current	< 0.3mA / 264 VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	See Selection Chart
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	80mS @ 230VAC
	12mS @ 115VAC
Setup, Rise Time @ FL	800mS, 20mS/230VAC
	800mS. 20mS/115VAC
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC)
	Hiccup mode, auto recover
Over Current Protection	73~95W rated output power
	Hiccup mode, auto recover
DC Voltage Adjust	4.5~5.5Volts(DC) 5Volts(DC)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +55°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	±0.04% / °C (0-50°C)
MTBF	275.1KHrs min,
	MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle,
	period for 60min. each along
	X, Y, Z axes

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

PHYSICAL SPECIFICATIONS

Size	Millimeters	127 x 76 x 42
	Inches	5" x 2.99" x 1.10"
Weight	9.52 oz (270g)	

GENERAL SPECIFICATIONS

Safety	UL2601-1
	TUV EN60601-1
	IEC60601-1 approved
Insulation Resistance	≥ 100MΩ / 500 Volts(DC)
EMI	Compliance to EN55011 (CISPR11)
	Class B
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	74% typ.
Isolation	4000VAC Input - Output
	1500VAC Input - Ground
	500VAC Output - Ground
EMS	Compliance to
	EN61000-4-2,3,4,5,6,8,11;
	ENV50204, EN60601-1-2,
	medical level, criteria A

NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Mounting holes M1 and M2 should be grounded for EMI purposes.

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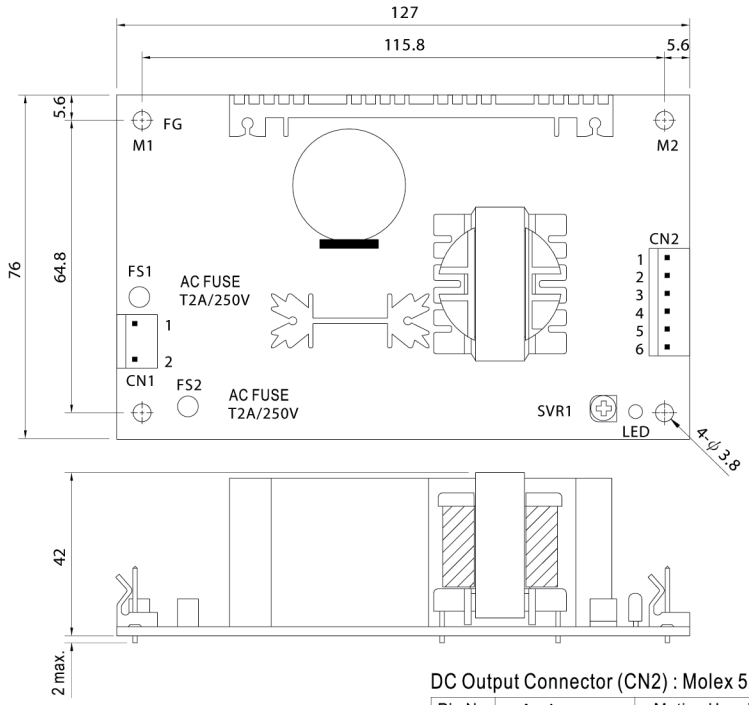
■ Mechanical Specification

Unit:mm



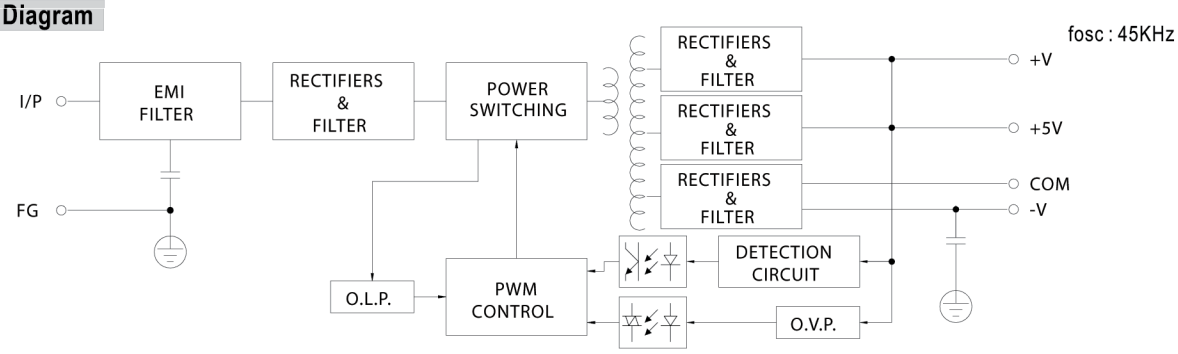
AC Input Connector (CN1) : Molex 5277-02 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/N		

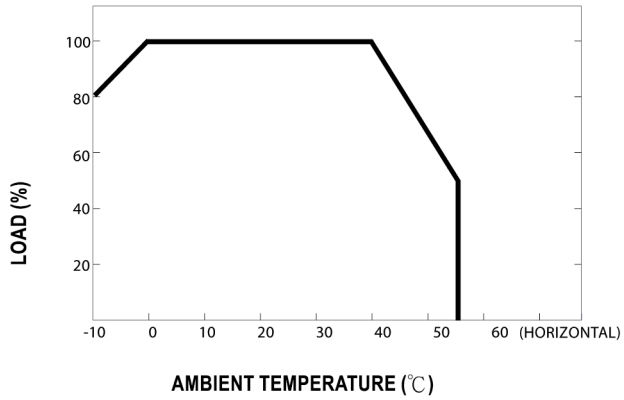
DC Output Connector (CN2) : Molex 5273-06 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
2,3	+5V		
4,5	COM		
6	-V		

■ Block Diagram



■ Derating Curve



■ Static Characteristics