

## APS151MP SERIES:



### 150 Watt Medical Switcher

- 5.00 x 3.00 x 1.40" Open Frame PCB

#### Features:

- Universal AC Input with Active PFC
- EN6100-3-2 Class D Compliant
- High Density Open-Frame Package
- International Medical Safety Approvals
- 2 Year Warranty

#### INPUT:

Input Voltage	Universal Input (90~264 VAC)
Input Frequency	47-63Hz
Inrush Current	11.3A @ 240 VAC Cold Start
Input Current	2.2A @ 115 VAC / 0.9A @ 230 VAC
Input Protection	Dual Fuse
Hold-Up Time	90mS Typical
Leakage Current	<500µA @ 230 VAC Maximum
Power Factor	0.90/0.99PF Typical @ 115/230 VAC (full load)

#### GENERAL:

Efficiency	76~80% minimum
Operating Temperature	See Derating Curves
Storage Temperature	-20°C to +85°C
Over-Temp Protection	Included
Cooling	See Derating Curves
Operating Humidity	5-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis

#### OUTPUT:

Adjustment Range	±5% Minimum (V1 & V2only)
Minimum Load	1% on V1for Multi Output Models Only
Regulation	V1 & V2 = ±3%, V3 & V4 = ±5% max
Ripple & Noise	±1% typical pk-pk @ 20MHz
Overload Protection	125-150% of max power (Hiccup Mode)
Over Voltage	Latching before130% of nominal (V1 & V2 only)
Short Circuit Protection	Trip without damage & auto-recovery
Overshoot	Turn-on & off overshoot < 5% over nominal voltage

#### EMC:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

#### APPROVALS:

Emissions EN55011 / EN55022 "B"  
FCC Part 15 Subject J Class B

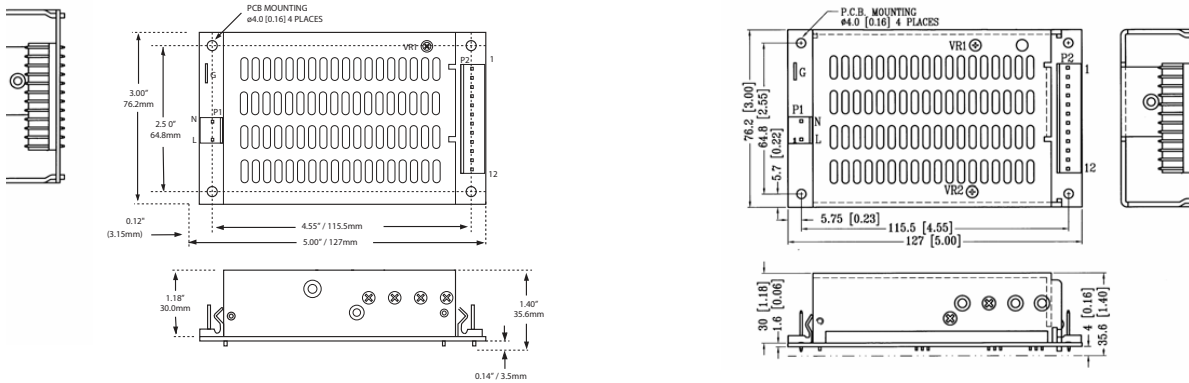
Safety Approvals cTUVus 60950-1 & 60601-1  
EN60950-1 & EN60601-1  
CE Mark (LVD)

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### Output Specifications:

Model:	V1	A1	V2	A2	V3	A3	V4	A4
APS151MP-S050270	5.0 V	27.0A						
APS151MP-S120125	12.0 V	12.5A						
APS151MP-S150100	15.0 V	10.0A						
APS151MP-S240063	24.0V	6.3A						
APS151MP-D050I	+ 5.0V	15.0A	+12.0V	6.0A				
APS151MP-D050M	+5.0V	15.0A	+24.0V	3.0A				
APS151MP-D120I	+12V	6.25A	+12V	6.25A				
APS151MP-D150K	+15V	5.00A	+15V	5.00A				
APS151MP-T033EI	+3.3V	18.0A	+5V	15.0A	+12V	0.8A		
APS151MP-T050II	+5V	15.0A	+12V	5.5A	+12V	0.8A		
APS151MP-T050KK	+5V	15.0A	+15V	4.50A	+15V	0.5A		
APS151MP-Q050KKE	+5V	15.0A	+15V	4.0A	-15V	0.8A	-5V	0.5A

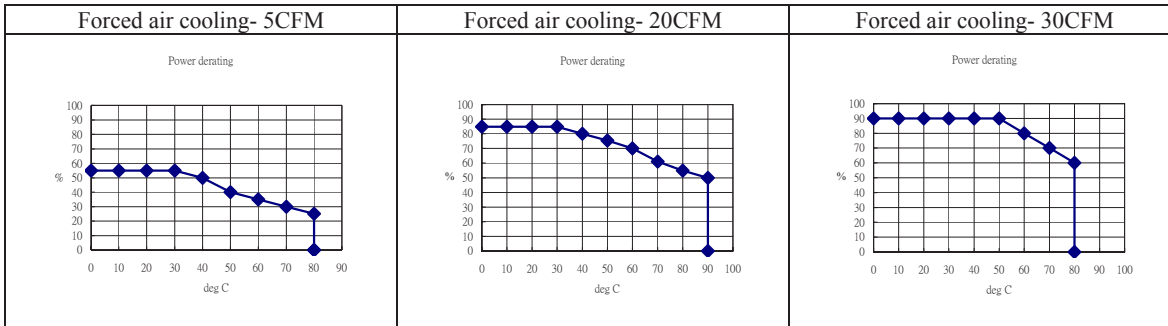
### OUTLINE DRAWING:



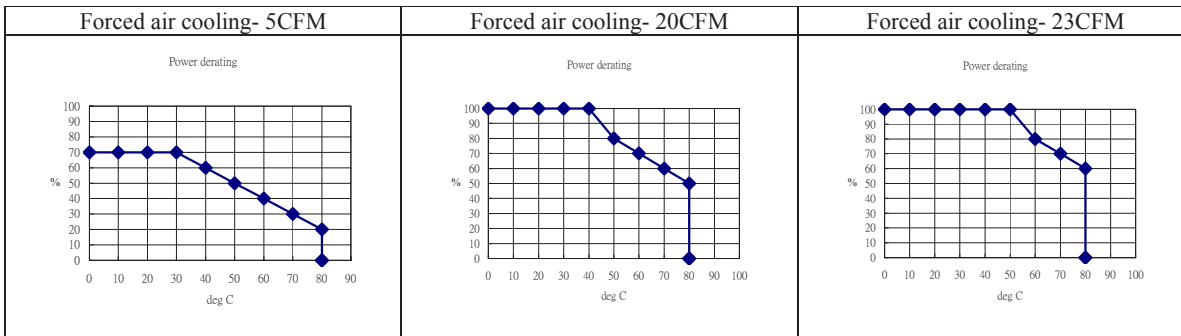
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### DERATING INFORMATION:

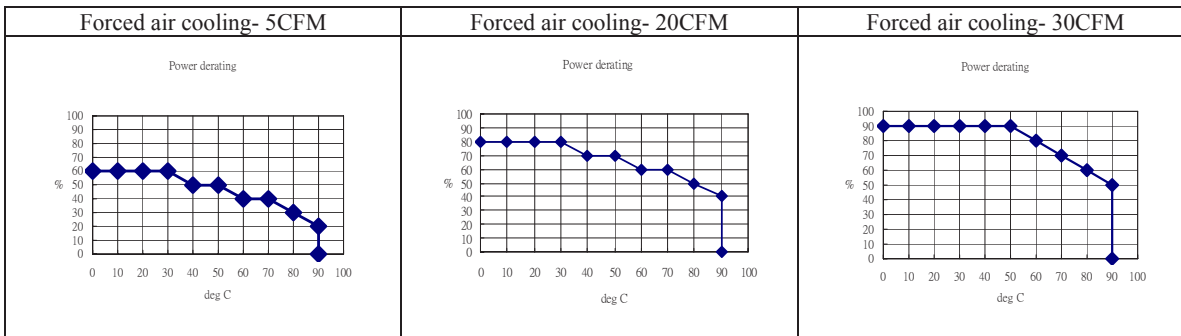
#### APS151MP-S050270



#### APS151MP-D0501



#### APS151MP-T033EI



#### APS151MP-Q050KKE

