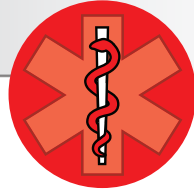


## MPU50 SERIES:



### 50 Watts / Single Output

- 5.69 x 2.97 x 1.69" External Desktop Package

### Features:

- Universal AC Input (90~264 VAC Input Range)
- IEC-320 Inlet C14 or C6 Option
- Over Voltage / Current / Temperature Protection Circuits
- International Safety Approvals for Medical Applications
- Class B Emissions
- 2 Year Warranty

### INPUT:

|                  |                                 |
|------------------|---------------------------------|
| Input Voltage    | 90~264 VAC (Universal AC Input) |
| Input Frequency  | 47-63Hz                         |
| Inrush Current   | 90A @ 230 VAC (Max Cold Start)  |
| Input Current    | 1500mA maximum                  |
| Input Protection | Dual Fuse                       |
| Hold-Up Time     | 10ms Minimum                    |
| Leakage Current  | <300 $\mu$ A @ 240 VAC Maximum  |
| Harmonics        | EN61000-3-2 Class D Compliant   |

### GENERAL:

|                       |  |
|-----------------------|--|
| Efficiency            | 65% minimum  |
| Operating Temperature | 0-40°C, derate linearly to 50% Load at 50°C          |
| Storage Temperature   | -40°C to +85°C                                       |
| Cooling               | Convection Cooled                                    |
| Operating Humidity    | 5-95% RH, Non-Condensing                             |
| Vibration             | 5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis |
| MTBF                  | >100k Hrs (according to MIL-HBK-217F) at 25°C        |

### OUTPUT:

|                     |   |
|---------------------|---|
| Minimum Load        | n/a   |
| Line Regulation     | $\pm$ 1% max                                      |
| Load Regulation     | $\pm$ 5% max                                      |
| Ripple & Noise      | $\pm$ 1% typ. pk-pk @ 20MHz                       |
| Overload Protection | All outputs protected to short circuit conditions |
| Over Voltage        | Latching 112~132% of nominal                      |

### EMC:

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

### APPROVALS:

Emissions EN55011 Class B

Safety Approvals UL/cUL 60601-1  
TUV/GS EN60601-1  
CE Mark (LVD)



## MPU50 SERIES:

| Output Specifications: |      |                    |           |
|------------------------|------|--------------------|-----------|
| Model:                 | Vout | Max Output Current | Max Power |
| MPU50x-0               | 3.3V | 7.50A              | 37.5W     |
| MPU50x-1               | 5.0V | 7.50A              | 37.5W     |
| MPU50x-1-1             | 7.5V | 5.33A              | 40W       |
| MPU50x-2               | 9.0V | 5.00A              | 45W       |
| MPU50x-3               | 12V  | 4.17A              | 50W       |
| MPU50x-4               | 15V  | 3.33A              | 50W       |
| MPU50x-5               | 18V  | 2.78A              | 50W       |
| MPU50x-6               | 24V  | 2.08A              | 50W       |
| MPU50x-7               | 28V  | 1.79A              | 50W       |
| MPU50x-8               | 48V  | 1.04A              | 50W       |

- Power Supply can be set to any voltage ranging between 3.0 ~ 30 VDC and maintain all safety approvals.
- Replace "x" with A or C to define Input Inlet per the drawing below.
- Standard Output Cable Length is 6 feet.
- Additional suffix to designate output connector is required, see connector options at <http://advpower.com/dcconnector.pdf>

### OUTLINE DRAWING:

