



E-Star Power Development Co., Ltd. (E-STAR)  
 No.305, Sec. 2, Jhongsan Rd., Banciao City, Taipei County 22067, Taiwan  
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

**50W Desktop type Medical power supply < MPU50X-0~8**

**Desktop power supply**

**Features:**

- Universal input voltage
- Single output
- Optional output connectors
- Over voltage protection
- Over current protection
- Over Temperature protection
- High efficiency & reliability
- Compact package
- Two years limited warranty



**SAFETY AGENCY APPROVALS**



Specifications:	MPU50A,C Series:
Input voltage	100~240 VAC (Limits:90-264VAC)
Input frequency	50 ~ 60Hz ( Limits : 47 ~ 63 Hz )
Input current	1.5A Max.
leakage current	0.3mA Max. @ 240VAC/50Hz
Output voltage	See rating chart ( $\pm 5\%$ tolerance)
Output current	See rating chart
Output power range	50 watts Max.
Ripple	1% peak to peak maximum
Over voltage protection	Provided on outputs set at 112~132% of its nominal output voltage
Over current protection	All outputs protected to short circuit conditions
Over Temperature protection	130°C Activated
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change
Operating temperature	0°C~+40°C
Storage temperature	-40°C to +85°C
Relative humidity	5% to 95% non-condensing
Derating	Derated from 100% at+40°C linearly to 70% at 50°C
Efficiency	65% minimum at full output
Hold-up time	10 msec minimum
Line regulation	$\pm 1\%$ maximum for any input voltage change between input voltage range
Load regulation	$\pm 5\%$ variations from minimum to maximum output current.
Insulation resistance	50 Mohm minimum from output to ground
Inrush current	15 AMPS @ 115 VAC, or 90 AMPS @ 230 VAC at 25°C cold start
Withstand voltage	5656VDC from input to output
Mean time between failure	100,000 hours minimum at full load at 25°C ambient
EMI requirements	Meet CE standards
Safety requirements	Meets or Exceeds:(A) UL60601-1 CAN/CSA-C22.2 NO.601-1 (B) TUV EN60601-1
Warranty	2 years



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UNIT:mm

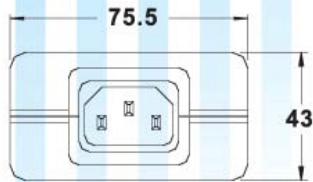


FIG1

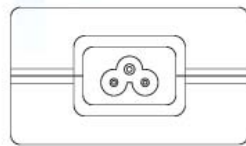
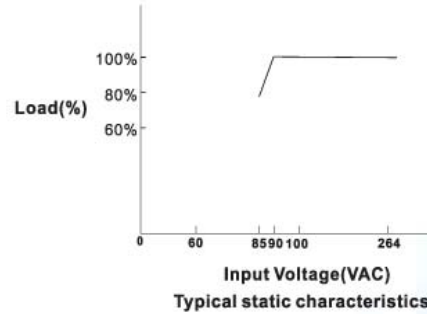
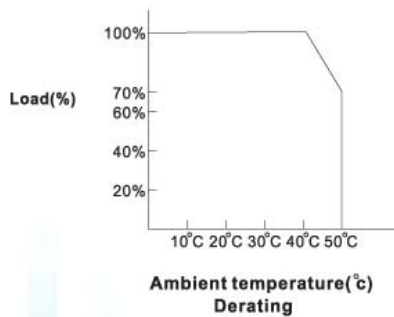
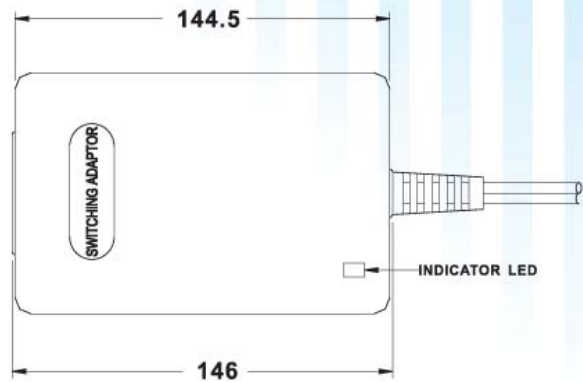


FIG2



X:A= (C14 FIG1) or C= (C6 FIG2)

Model name	Output Voltage(VDC)	Output Current(A)	Max.Output power(W)	Ripple.(mV) max.	Line Regulation(%)	Load Regulation(%)	Efficiency(%) (min)	Measured at the output of
MPU50X-0	3~5	7.50	37.5	50	±1	±8	60	3.3
MPU50X-1	5~6	7.50~6.25	37.5	50	±1	±6	67	5
MPU50X-1-1	6~8	6.66~5.00	40	75	±1	±5	70	7.5
MPU50X-2	8~11	5.62~4.09	45	90	±1	±5	72	9
MPU50X-3	11~13	4.54~3.84	50	100	±1	±3	74	12
MPU50X-4	13~16	3.84~3.12	50	100	±1	±3	75	15
MPU50X-5	16~21	3.12~2.38	50	150	±1	±3	78	18
MPU50X-6	21~27	2.38~1.85	50	150	±1	±2	78	24
MPU50X-7	27~33	1.85~1.51	50	200	±1	±2	78	28
MPU50X-8	33~48	1.51~1.04	50	200	±1	±2	80	48

Note:

1.Weight:Approx 510~560g

2.Optional output connectors (see page 40)