



E-Star Power Development Co., Ltd. (E-STAR)  
 1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City  
 22069, Taiwan (R.O.C.)  
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

**70W Desktop type Medical power supply > GMPU70**

**Desktop power supply**

**Features:**

- Universal input voltage
- Meet ENERGY STAR V
- Single output
- Over voltage protection
- Over current protection
- Short circuit protection
- Means of patient protection design
- Low leakage current
- Output voltage 5~58VDC
- Possess risk analysis report
- Meet 60601-1 3.1 edition
- Two years limited warranty



**SAFETY AGENCY APPROVALS**

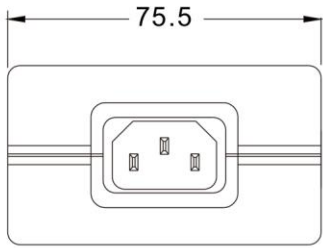


Specifications:	GMPU70 Series:
Input voltage	100~240 VAC
Input frequency	50~60Hz
Input current	1.8~0.8A
Leakage current	0.1mA Max. @ 240VAC/50Hz
Output voltage	See rating chart
Output current	See rating chart
Output power range	See rating chart
Ripple	See rating chart
Over voltage protection	Yes.<140% output voltage
Over current protection	Yes.>120% output current, Auto-recover
Short protection	Yes. Hiccup mode, Auto-recover
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	-20 $^{\circ}\text{C}$ ~+40 $^{\circ}\text{C}$
Storage temperature	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
Relative humidity	5% to 95% non-condensing
Derating	Derated from 100% at+40 $^{\circ}\text{C}$ linearly to 50% at 70 $^{\circ}\text{C}$
Avg.Efficiency	See rating chart
Hold-up time	8mS min.
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	50Mohm minimum from input to output
Inrush current	100 AMPS @ 230 VAC at 25 $^{\circ}\text{C}$ cold start
Withstand voltage	5656VDC from input to output
Mean time between failure	100,000 hours minimum at full load at 25 $^{\circ}\text{C}$ ambient
EMC	(A) EN60601-1-2:2007 (B) FCC PART 15 & PART 18 CLASS B
Safety	Meets or Exceeds:(A) UL: ES60601-1:2005 (B) CSA: C22.2 NO.60601-1:2008 (C) EN60601-1:2006 (D) IEC60601-1:2005
Warranty	2 years

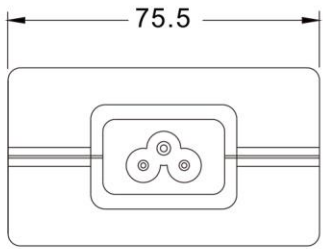


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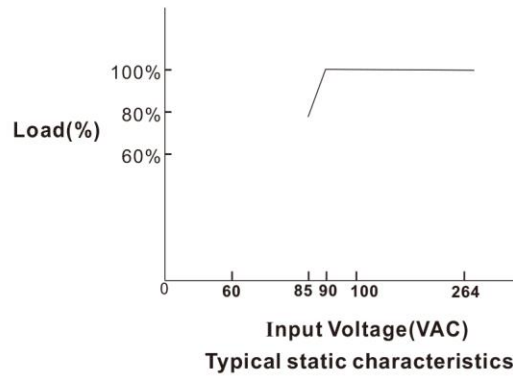
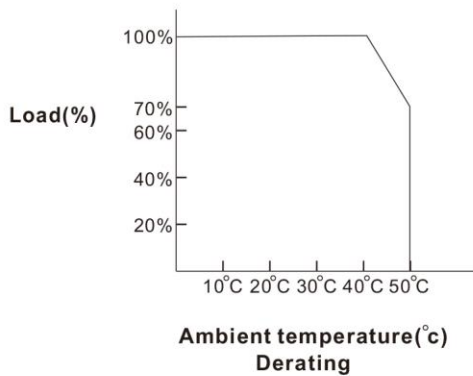
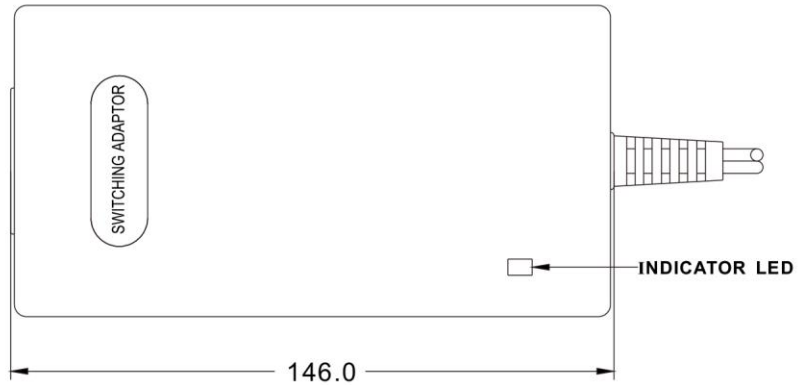
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**FIG 1**



**FIG 2**



**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(%)	Avg.Eff.(%)	No load Power Consumption(W)	Measured at the output of
							DoE (V) / CoC (4)		
GMPU70X-1	5~6	7.50~6.36	37.5	200	±1	±5	>83.4	<0.5	5
GMPU70X-1-1	6~8	7.50~5.63	45	100	±1	±5	>86.10	<0.5	7.5
GMPU70X-2	8~11	7.50~5.46	60	120	±1	±5	>87	<0.5	9
GMPU70X-3	11~13	6.37~5.39	70	120	±1	±5	>87	<0.5	12
GMPU70X-4	13~16	5.39~4.38	70	120	±1	±5	>87	<0.5	15
GMPU70X-5	16~21	4.38~3.34	70	180	±1	±5	>87	<0.5	18
GMPU70X-6	21~27	3.34~2.60	70	180	±1	±5	>87	<0.5	24
GMPU70X-7	27~33	2.60~2.13	70	240	±1	±5	>87	<0.5	32
GMPU70X-8	33~58	2.13~1.22	70	240	±1	±5	>87	<0.5	48

Note:

- 1.Weight:Approx 370~375gs
- 2.Optional output connectors(See appendix A)
- 3.ENERGY STAR V Standard Output cable: 5~16V: UL1571, 14AWG, 1 M  
17~58V: UL2468, 18AWG, 6FT