



Medical Power Supplies - Open Frame 7-250W Series

Elpac open frame medical grade power supplies are preferred by customers who want to incorporate the AC/DC power supply into their system, delivering a complete, compact package.



- Universal AC Inputs, 85-264
- Single, Dual, and Triple Outputs
- Medical agency requirements including UL2601-1 and EN60601-1

Model Numbers:

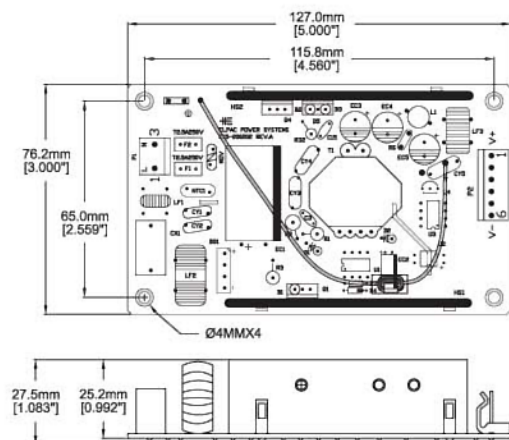
Model	Volts	Input AC	Power	Power Supply Type	PFC	CEC	RoHS	Class	
MSM07	5,12,15,24,28	100-240	7W	Switching Regulated	No	No	No	II	
MSM20	12,15,24	100-240	20W	Switching Regulated	No	No	No	I	
MSM28	12,15,28	100-240	28W	Switching Regulated	No	No	No		

MSM40	12,15,18,24	90-264	40W	Switching Regulated	No	No	No		
MSM40 – A/B/D (Triple Output)	5, 12, -12 5, 15, -15 5, 24, -12	85-264	40W	Switching Regulated	No	No	No	I	
MS40	9,12,15,18,24	85-264	40W	Switching Regulated	No	No	Yes	I	
MTA40	9,12,15,24	85-264	40W	Switching Regulated	No	No	Yes	I	
MSM60	12,24	100-240	60W	Switching Regulated	No	No	No		
MSM65	12,15,24	100-240	65W	Switching Regulated	No	No	No	I	
MS65	9,12,15,24	85-264	65W	Switching Regulated	No	No	Yes		
MTA65	9,12,15,24	85-264	65W	Switching Regulated	No	No	Yes	I	

MS 40 Series

40 Watt Medical Grade Power Supply

- Wide Range AC Input
- Fully Regulated DC Output
- High Efficiency
- Output Floating
- Medical Grade Approval
- RoHS Compliant
- 5 Year Warranty



SPECIFICATIONS

INPUT

Voltage	85 - 264 VAC		
Current	1.0 Amp @ 100 VAC		
Frequency	47 - 63 Hz		
Max. Earth	Test Voltage	Normal	Single
Leakage current	132 VAC 60 Hz	50 uA	80 uA
	264 VAC 60 Hz	75 uA	135 uA

OUTPUT

Total regulation	<+/- 5%		
Set point accuracy	<+/- 3% at 60% load		
Hold up time	>16 ms min at full load, 115 VAC		
Over voltage protection	Built-in		
Over current protection	Built-in		
Short circuit protection	Pulsing mode, auto recovery		
Ripple/noise (Vp-p)	<1% (20 MHz bandwidth)		

PINOUT

	1	2	3	4	5	6
Input P1	AC Line	-	AC Neut	N/A	N/A	N/A
Output P2	V1	V1	V1	Com	Com	Com

Input and Output Connections

Input connector (P1) = MOLEX p/n 09-65-2038 or equivalent
 Input mating connector = MOLEX p/n 09-50-1031 or equivalent
 Output connector (P2) = MOLEX p/n 09-65-2068 or equivalent
 Output mating connector = MOLEX p/n 09-50-1061 or equivalent
 Input P1 GND 0.25" FASTON TAB
 Mating connector contacts = AMP p/n 3-770476-1 or equivalent

ENVIRONMENTAL

Operating temperature	0° C to 50° C
Storage temperature	-40° C to 85° C
Weight	0.40 lbs

SAFETY

cTUVus
 UL 60601-1
 CSA C22.2 No.601.1-M90
 CB per IEC 60601-1
 CE marked to LVD
 Class I

EMI/EMC

Emissions	CISPR11 and FCC Part 15, Class B. EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11

Model No.	Volt	Power	Current	Eff@115VAC (Typ)
MS4009F	9V	40W	4.4A	84%
MS4012F	12V	40W	3.3A	86%
MS4015F	15V	40W	2.7A	86%
MS4018F	18V	40W	2.2A	86%
MS4024F	24V	40W	1.67A	88%