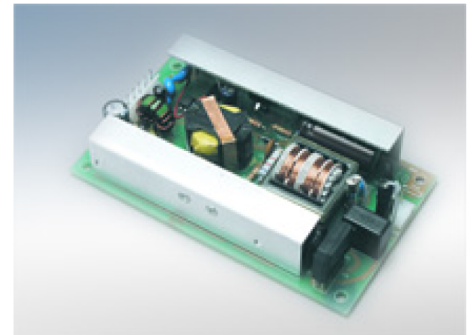




### Medical Power Supplies - Open Frame 7-250W Series

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:**

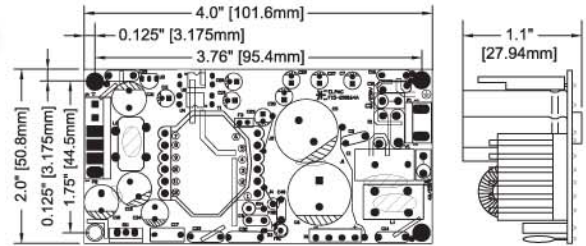
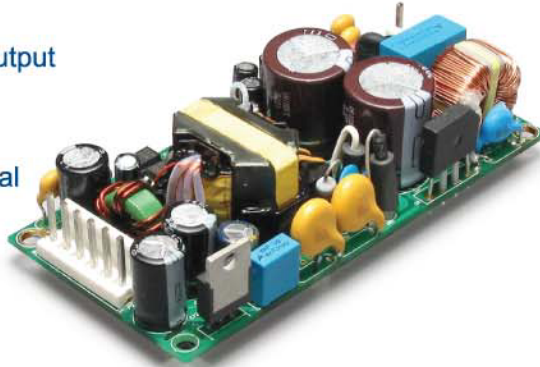
| Model | Volts         | Input<br>AC | Power | Power<br>Supply<br>Type    | PFC | CEC | RoHS | Class |  |
|-------|---------------|-------------|-------|----------------------------|-----|-----|------|-------|--|
| MSM07 | 5,12,15,24,28 | 100-240     | 7W    | Switching<br><br>Regulated | No  | No 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

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

# MTA 65 Series

## 65 Watt Medical Grade Power Supply

- Wide Range AC Input
- Fully Regulated DC Output
- High Efficiency
- Output Floating
- Medical Grade Approval
- Dimensions Meet 1U Applications
- RoHS Compliant
- 5 Year Warranty



### SPECIFICATIONS

#### INPUT

|                            |                   |        |        |
|----------------------------|-------------------|--------|--------|
| Voltage                    | 85 - 264 VAC      |        |        |
| Current                    | 2.0 Amp @ 100 VAC |        |        |
| Frequency                  | 47 - 63 Hz        |        |        |
| Max. Earth Leakage current | Test Voltage      | Normal | Single |
|                            | 132 VAC 60 Hz     | 60 uA  | 95 uA  |
|                            | 264 VAC 50 Hz     | 115 uA | 185 uA |

#### OUTPUT

|                          |                                  |
|--------------------------|----------------------------------|
| Total regulation         | < +/- 5%                         |
| Set point accuracy       | < +/- 3% at 60% load             |
| Hold up time             | >20 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 | Com      | Com | -   | -   |

#### Input and Output Connections

Input connector = AMP p/n 640445-3 or equivalent  
 Input mating connector = AMP p/n 640250-3 or equivalent  
 Output connector = AMP p/n 640445-6 or equivalent  
 Output mating connector = AMP p/n 640250-6 or equivalent

#### ENVIRONMENTAL

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | 0° C to 50° C   |
| Storage temperature   | -40° C to 85° C |
| Weight                | 0.30 lbs        |

#### SAFETY

cTUVus  
 UL 60601-1  
 CSA C22.2 No.60601.1-M90  
 CB per IEC 60601-1  
 CE marked to LVD  
 Class I

#### EMI/EMC

|           |   |
|-----------|---|
| Emissions | CISPR11 and FCC Part 15, Class B<br>EN61000-3-2, -3 |
| Immunity  | EN61000-4-2, -3, -4, -5, -6, -8, -11                |

| Model No.  | Volt | Power | Current A | Current B | Eff @ 115VAC (Typ) |
|------------|------|-------|-----------|-----------|--------------------|
| MTA065009A | 9V   | 65W   | 5.6A      | 7.2A      | 88%                |
| MTA065012A | 12V  | 65W   | 4.2A      | 5.4A      | 89%                |
| MTA065015A | 15V  | 65W   | 3.3A      | 4.3A      | 89%                |
| MTA065024A | 24V  | 65W   | 2.1A      | 2.7A      | 90%                |

65 Watts of continuous power with forced air,  
 50 Watts with unrestricted natural convection  
 Current A = Max. continuous current with unrestricted convection  
 Current B = Max. continuous current with 150 LFM air