## FEATURES

Variety of output models 5VDC to 58VDC
60W Single Output
Wide Range Input 100-240 VAC
Class I and II approval.
Safety Approved UL60601-1, EN60601-1
CE Compliant, FCC Class B
Sealed power supply

## 60W Medical Desktop DTM60 Series

## SPECIFICATION

| Model | | DTM60-05-NYYYY | DTM60-09-NYYYY | DTM60-12-NYYYY | DTM60-15-NYYYY | DTM60-19-NYYYY | DTM60-21-NYYYY |
|---|---|---|---|---|---|---|---|
| Output Requirements | Voltage | 5V | 9 V | 12 V | 15 V | 19 V | 21 V |
| | Current Minimum | 0A | 0A | 0A | 0A | 0A | 0A |
| | Current Maximum | 6A | 5A | 5A | 4A | 3.16A | 2.86A |
| | Regulation | Line (2) 1% | 1% | 1% | 1% | 1% | 1% |
| | | Load (3) 6% | 5% | 5% | 5% | 5% | 5% |
| | Efficiency | 80% | 80% | 80% | 80% | 85% | 85% |
| | Maximum Peak (1) | 120m Vp-p | 120m Vp-p | 120m Vp-p | 150m Vp-p | 190m Vp-p | 210m Vp-p |
| | Temperature coefficient | ±0.05%/℃ typical on all output | | | | | |
| | Turn on / off delay | The output voltage must be monotonic and rise to the final value in 3 seconds | | | | | |
| | Hold – up time | 10 msec minimum from loss of nominal AC input at full load condition, 115VAC/60Hz input, output will remain within regulation | | | | | |
| | Transient Response and Deviation | 5% max deviation recovering to within 1% within 500us for 50% load change | | | | | |
| Input Requirements | Voltage | 90Vac ~ 264Vac | | | | | |
| | Frequency | 47Hz ~ 63Hz | | | | | |
| | Current | The maximum input current is 1.6A at 120Vac | | | | | |
| | Inrush Current | The inrush current will not exceed ***50A*** at 115Vac input, cold start, 25C | | | | | |
| | Operating Frequency | 60~75 KHz | | | | | |
| | No load Power consumption | The no load power consumption is ***0.5W*** Max. @ 230VAC input. There is an LED power on indicator. | | | | | |
| Protection Requirement | Over- Current Protection | Protection type : Hiccup mode, recovers automatically after fault condition is removed. Set point @110% to 150% | | | | | |
| | Short circuit protection | Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | | |
| | Over voltage protection | ***110% to 150%*** (set point) Protection type : Latching, recovers only when restart the power | | | | | |
| Environmental Conditions | Operating | Ambient Temperature | 0℃ ~40℃ | | | | |
| | | Relative Humidity | 20% ~ 90% | | | | |
| | | Altitude | Sea level to 10,000 feet | | | | |
| | | Vibration | 1.0mm, 10 –25Hz, 15 minutes per cycle for each axis (X, Y, Z) | | | | |
| | | Cooling | The power supply will operate with convection. | | | | |
| | Non – Operating | Ambient Temperature | *-40℃ ~ 80℃* | | | | |
| | | Relative Humidity | 5% ~ 90% | | | | |
| | | Altitude | Sea level to 10,000 feet | | | | |
| | | Vibration and Shock | *1-Shipping vibration: This power supply may be vibrated in1.0mm, 10 ~ 55Hz, 1.0G 0min/1cycle, period for 30 min each along X,Y,Z axes*<br>*2- Shipping shock: This power supply in the shipping package may be dropped 8 times from a height of 900mm.* | | | | |



Autec Power Systems
667 E Cochran St, Simi Valley, CA93065
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Fax: (805)522-8777

| Model | | DTM60-05-NYYYY | DTM60-09-NYYYY | DTM60-12-NYYYY | DTM60-15-NYYYY | DTM60-19-NYYYY | DTM60-21-NYYYY |
|---|---|---|---|---|---|---|---|
| International Standards | **EMI standards** | ***EN55011*** **,** ***FCC CLASSB*** | | | | | |
| | EMS standards | ***EN61204***, ***EN61000-3-2***, ***EN61000-3-3***,***EN61000-4-5*** | | | | | |
| Reliability & Quality Control | MTBF | When the supply is operation within any of the limits of this specification the MTBF is ***100*** Khours at 25℃. | | | | | |
| | Burn-In | The power supply will be performed a minimum for a **4** hours Burn-In at 40℃ ±5℃ under full load on all power supplies calculate MTBF. | | | | | |
| Mechanical | Weight | *350* gram Max. | | | | | |
| Safety | Safety Standard | UL 60601-1, CUL, EU, CE & CB | | | | | |
| | Insulation Resistance | Input to output: 50M OHM at 500 VDC | | | | | |
| | | Input to case: 10M OHM at 500 VDC | | | | | |
| | Dielectric Strength (Hi-Pot) | Primary to Secondary: **DC4242V**, 10mA, for 1 minute | | | | | |

| | | | | |
|---|---|---|---|---|
| Safety | Leakage Current | Class I: Max. ***0.25mA*** | | Class II: Max. ***0.1mA*** |
| | Line Surge | Class I Comply with IEC61000-4-5 L-N:***1KV*** L&N-G:***2KV*** | | Class II: Comply with IEC61000-4-5 L-N:***1KV*** |
| Mechanical | Dimensions | 117*53*30.5 (mm) – 4.6*2.08*1.2 (inch) | | |
| | Connectors | Class I: ***IEC C6 INLET*** | Class II: ***IEC C8 INLET*** | Class I: ***IEC C14 INLET*** |


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## FEATURES

Variety of output models 5VDC to 48VDC
60W Single Output
Wide Range Input
Class I & II
Safety Approved UL60601-1, EN60601-1
CE Compliant, FCC Class B
Open Frame power supply

## 60W Medical Open Frame DTM60 Series

## SPECIFICATION

| Model | | DTM60-24-NYYYY | DTM60-28-NYYYY | DTM60-36-NYYYY | DTM60-48-NYYYY | DTM60-58-NYYYY |
|---|---|---|---|---|---|---|
| Output Requirements | Voltage | 24V | 28V | 36V | 48 V | 58V |
| | Current Minimum | 0A | 0A | 0A | 0A | 0A |
| | Current Maximum | 2.5A | 2.14A | 1.67A | 1.25A | 1.03A |
| | Regulation | Line (2) 1% | 1% | 1% | 1% | 1% |
| | | Load (3) 5% | 3% | 3% | 3% | 3% |
| | Efficiency | 85% | 85% | 85% | 85% | 85% |
| | Maximum Peak (1) | 240m Vp-p | 280m Vp-p | 360m Vp-p | 480m Vp-p | 580m Vp-p |
| | Temperature coefficient | ±0.05%/°C typical on all output | | | | |
| | Turn on / off delay | The output voltage must be monotonic and rise to the final value in 3 seconds | | | | |
| | Hold – up time | 10 msec minimum from loss of nominal AC input at full load condition, 115VAC/60Hz input, output will remain within regulation | | | | |
| | Transient Response and Deviation | 5% max deviation recovering to within 1% within 500us for 50% load change | | | | |
| Input Requirements | Voltage | 90Vac ~ 264Vac | | | | |
| | Frequency | 47Hz ~ 63Hz | | | | |
| | Current | The maximum input current is 1.6A at 120Vac | | | | |
| | Inrush Current | The inrush current will not exceed ***50A*** at 115Vac input, cold start, 25C | | | | |
| | Operating Frequency | 60~75 KHz | | | | |
| | No load Power consumption | The no load power consumption is ***0.5W*** Max. @ 230VAC input. There is an LED power on indicator. | | | | |
| Protection Requirement | Over- Current Protection | Protection type : Hiccup mode, recovers automatically after fault condition is removed. Set point @110% to 150% | | | | |
| | Short circuit protection | Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | |
| | Over voltage protection | ***110% to 150%*** (set point) Protection type : Latching, recovers only when restart the power | | | | |
| Environmental Conditions | Operating | Ambient Temperature | 0℃ ～40℃ | | | |
| | | Relative Humidity | 20% ～ 90% | | | |
| | | Altitude | Sea level to 10,000 feet | | | |
| | | Vibration | 1.0mm, 10 –25Hz, 15 minutes per cycle for each axis (X, Y, Z) | | | |
| | | Cooling | The power supply will operate with convection. | | | |
| | Non – Operating | Ambient Temperature | *-40℃ ~ 80℃* | | | |
| | | Relative Humidity | 5% ~ 90% | | | |
| | | Altitude | Sea level to 10,000 feet | | | |
| | | Vibration and Shock | *1-Shipping vibration: This power supply may be vibrated in1.0mm, 10 ~ 55Hz, 1.0G 10min/1cycle, period for 30 min each along X,Y,Z axes*<br>*2- Shipping shock: This power supply in the shipping package may be dropped 8 times from a height of 900mm.* | | | |



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| Model | | DTM60-24-NYYYY | DTM60-28-NYYYY | DTM60-36-NYYYY | DTM60-48-NYYYY | DTM60-58-NYYYY |
|---|---|---|---|---|---|---|
| International Standards | **EMI standards** | ***EN55011*** , ***FCC CLASSB*** | | | | |
| | EMS standards | ***EN61204***, ***EN61000-3-2***, ***EN61000-3-3***,***EN61000-4-5*** | | | | |
| Reliability & Quality Control | MTBF | When the supply is operation within any of the limits of this specification the MTBF is ***200*** Khours at 25℃. | | | | |
| | Burn-In | The power supply will be performed a minimum for a **4** hours Burn-In at 40℃ ±5℃ under full load on all power supplies calculate MTBF. | | | | |
| Mechanical | Weight | *350* gram Max. | | | | |
| Safety | Safety Standard | UL 60601-1, CUL, EU, CE & CB | | | | |
| | Insulation Resistance | Input to output: 50M OHM at 500 VDC | | | | |
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| | Dielectric Strength (Hi-Pot) | Primary to Secondary: **DC4242V**, 10mA, for 1 minute | | | | |

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| Mechanical | Dimensions | 117*53*30.5 (mm) – 4.6*2.08*1.2 (inch) | | |
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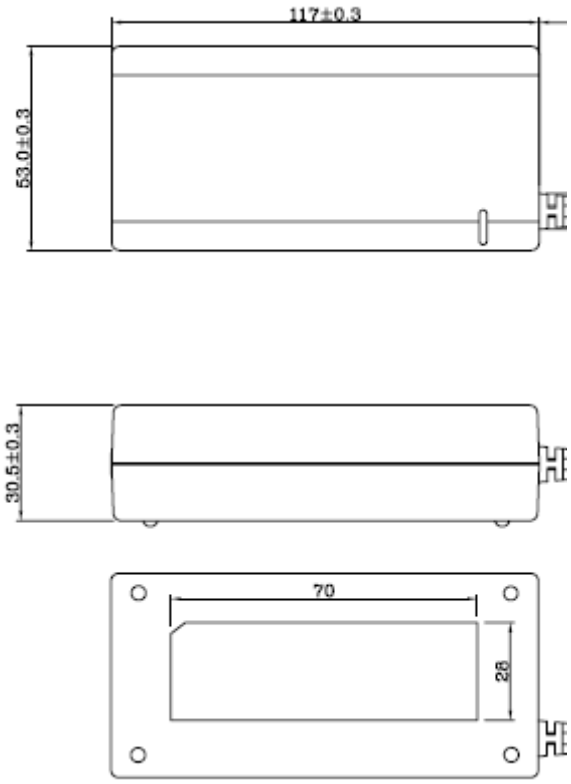


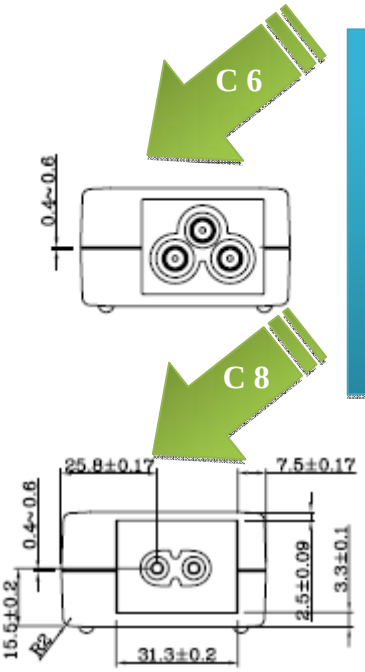


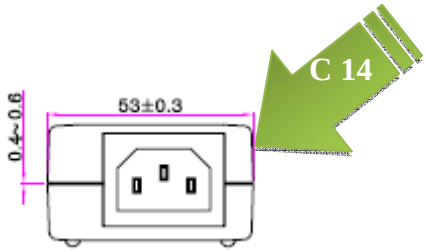


Several output connectors available, please consult with one of our staff for help.
AC Power cord is not included but available upon request.

DTM 6 0 - X X – N Y Y Y Y

- DTM: Medical Adapter
- 6 0: Output power
- X X: Output Voltage
- N: Input Connector Type: C6 = 1 C8 = 2 C14 = 3
- Y Y Y Y: Any alphanumeric character for different output cable type or customer ID

NOTES

1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Line regulation is measured from low line to high line at full load.
3. Load regulation is measured from 20% to 100% rated load.
4. Specification subject to change without notice.


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