

MODEL: AMD-12V030WxyA**Summary**

The AMD-12V030WxyA is the Medical Adapter from one of the world's largest power supply manufacturers -Delta.

The product offers a regulated output voltage of 12V, along with wide temperature range from 0°C to +40°C and a minimum holdup time of 15ms.

The state-of-the-art design is made to withstand medical equipment requirements. The rugged, ultra-compact plastic case with shock and vibration resistances.

Features:

- 30Watts Output Power.
- 100-240Vac Universal Input.
- AC Receptacle with C8 & C14 option (IEC320AC receptacle)
- Efficiency > 83.5%
- No load power consumption < 0.3W
- Energy star Compliant (Level V)
- Low leakage current
- Brownout & Brownout Recovery
- Medical safety standard compliant UL60601-11/EN60601-1/CSA60601-1
- MTBF: > 600,000 Hrs.

The 30 watts Medical power supply provides overvoltage, overload and over temperature protection.

Due to the wide input voltage range from 90 to 264Vac (Nominal input: 100Vac to 240 Vac), the Delta's medical power supply is worldwide usable.

The Input Socket & output connector are made for easy installation.



Technical Data

| 30W Medical Adapter | |
|---|---|
| Input Data (1) | |
| Nominal input voltage (wide-range input) | 100V-240VAC |
| Input Voltage range | 90V-264VAC |
| Frequency | 47-63 Hz |
| Max Input Current | 0.65A max @ 115VAC, 0.40A max @ 230VAC |
| Inrush current limitation. I ² t (+25 °C) typ. | 25A @ 115VAC & 50A @ 230VAC |
| Efficiency (at 115VAC and nominal values) | > 83.5% |
| No load power consumption | < 0.3W |
| Mains buffering at nominal load (typ.) | 15 msec min @ 115VAC |
| Turn-on time after applying the mains voltage | 3Sec |
| Transient surge voltage protection | VARISTOR |
| Input fuse, internal (device protection) | T 3.15 AH / 250VAC |
| Discharge current to PE | < 0.25mA |
| Altitude | 3,000 m. |
| Output Data (2) | |
| Nominal output voltage U _N / tolerance | 12V ± 2% |
| Setting range of the output voltage | 11.7V-12.3V |
| Nominal output current I _N convection cooling | 2.5A |
| Max. power dissipation idling/nominal load approx. | 30W |
| Ripple/ Noise (20 MHz) | <120mVpp @ +25 °C |
| Line Regulation | ± 0.5% |
| Load Regulation : | Exclude output cord : ± 1% Include output cord ± 5% |
| Protection : | Over Current (Auto Recovery) Over Voltage (Latch) Over Temperature (Latch) |
| Certification/Standards | |
| Electrical safety (of information technology equipment) | UR/cUR As per STD UL60601-1/CSA60601-1, CB scheme to EN/IEC60601-1, NEMKO EN60601-1, CE Mark LVD and EMC |
| RoHS Compliant | Yes |



| General Data | |
|--|--|
| MTBF | > 600,000 Hrs |
| Type of housing | Plastic Enclosed , 94V-1 Polycarbonate, Black |
| Dimensions (W / H / D) | 62 * 30 * 110 mm |
| Weight | 220 g. (reference) |
| Climatic Data | |
| Ambient temperature (Operating) | 0 °C to 40 °C |
| Ambient temperature (Storage) | -35 °C to + 85 °C |
| Humidity | 5% to 95% non-condensing |
| In conformance with EMC guideline 89/336/EEC and low voltage directive 73/23/EEC | FCC (Title 47 Part 15 Class B), EN55022 (CISPR 22 Class B) |
| EMC (electromagnetic compatibility) | |
| Immunity to interference according to EN 61000-6-1 | |
| <ul style="list-style-type: none"> EN 61000-4-2²⁾ Discharge of static electricity (ESD) | Housing Contact discharge: Level 4 8 kV Air Discharge : 15 kV |
| <ul style="list-style-type: none"> EN 61000-4-3¹⁾ Electromagnetic HF field | Housing Frequency/Field intensity: Level 3 80Hz – 1GHz / 10V/M, with 1kHz tone/80% modulation |
| <ul style="list-style-type: none"> EN 61000-4-4²⁾ Fast transients (Burst): | Input L,N,PE : Level 3 2kV ³⁾ Signal: - |
| <ul style="list-style-type: none"> EN 61000-4-5²⁾ Surge voltage capacities (Surge): | Input : Level 3 Common Mode : 2kV ³⁾ Differential Mode : 1kV ⁴⁾ |
| <ul style="list-style-type: none"> EN 61000-4-6¹⁾ Conducted disturbance | I/O: Level 3 Frequency / U _o : 0.15MHz - 80MHz / 10Vrms. |
| <ul style="list-style-type: none"> EN 61000-4-11²⁾ Voltage dips | Self recoverable, No damage |
| Noise emission according to EN 61000-6-3 | |
| <ul style="list-style-type: none"> Emitted radio interface Radio interference voltage | EN55011 (EN55022) CLASS B ⁵⁾ EN55011 (EN55022) CLASS B ⁵⁾ |
| EN55011 corresponds to CISPR11 / EN55022 corresponds to CISPR22 / EM 61000 corresponds to IEC 1000 | |
| 1) Criterion A: Normal operating behavior within the defined limits. 2) Criterion B: Temporary impairment to operational behavior that is corrected by the device itself. 3) Symmetrical: Conductor to conductor. 4) Asymmetrical: Conductor to ground. 5) Class B: Area of application industry and residential | |

Numbering for Medical Adapter

For example: **AMD-12V030WxyA**

XX X XXXX XXXX X XX

XX.....**Product Type**

| | |
|----|-----------------|
| AM | Medical Adapter |
|----|-----------------|

XX **X** XXXX XXXX X XX

X.....**Model**

| | |
|---|---------|
| D | Desktop |
|---|---------|

XX X **XXXX** XXXX X XX

XXXX.....**Voltage**

| | |
|-----|------------|
| 12V | 12 Voltage |
|-----|------------|

XX X XXXX **XXXX** X XX

XXXX.....**Watt**

| | |
|------|---------|
| 030W | 30 Watt |
| 060W | 60 Watt |
| 080W | 80 Watt |
| | |

XX X XXXX XXXX **X** XX

X.....**Input Configuration**

| | |
|---|----------|
| 2 | 2 PIN AC |
| 3 | 3 PIN AC |

XX X XXXX XXXX X **X** X

X.....**Connector Type**

| | |
|---|-----------------------|
| A | Inner diameter 2,5 mm |
| B | Inner diameter 2,1 mm |

*** **Outer Diameter 5,5 mm.**

XX X XXXX XXXX XX **X**

X.....**Variation**

(Eg, Customer, material,Etc.)

| | |
|---|-------------------------------|
| A | Delta Standard -product |
|---|-------------------------------|

Mechanical drawing

