

Power **CRAFTEC FINDER**

EUROPE'S NUMBER ONE POWER SUPPLY DISTRIBUTOR

Special Medical Edition

Power Solutions from Powerbox

Craftec
www.craftec.info

powerbox

MEDICAL GRADE

Medical Power Supplies

Extreme personal safety and high quality standards are what is significant for Medical Power Supplies. There are very many applications and different types of electronics used in the medical field. Everything from measurement and instrumentation equipments, packaging solutions, x-ray machines, life supporting machines to devices for medicine distribution, etc. The list is long and the power and voltage requirements are very different, but they all have in common that one has to pay attention to increased product safety and reliability requirement.

Typical characteristics of Medical Power:

- Personal safety standards
- Many different voltages and power solutions used depending on applications.

Powerbox experience:

- Power system for x-ray machines (mammography), power supplies for instrumentation, packaging, ventilation, infusion pumps, surgical lighting and imaging.

Standard and Modified Power Supplies

Powerbox have access to several standard product series and platforms to find quick and cost efficient solutions. However our experience is that many applications are unique in some way in the medical market. It can be mechanical format or connectors for example. Our wide range of available standard products combined with our experience in medical power solutions ensure a professional cost efficient and high quality product suiting the demands.

Medline Family 25W to 1000W

- Standard, modified & custom
- Medline – a complete range of standard medical power
- Proprietary design technology
- Superior in reliability, MTBF, EMC performance & low leakage currents
- Green mode design concept
- Unmatched power density in Medline EXM/OFM-series
- Exterior design of Powerbox “floortop” & wallplug adaptors
- Medical safety approvals 60601-1 Edition III
- Power systems for x-ray machines (mammography), instrumentation, packaging, ventilation, infusion pumps, surgical lighting and imaging



Medline EXM30E Series

30W Single Output



Minimum volumes required

Web code
MED30

- Very reliable design concept with low component count
- Ultra low leakage current
- Small size
- Designed for CF level medical applications
- Very low leakage current
- Class II double isolation

Medline EXM80 Series

80W Single Output



Web code
MED80

- Highest output power on the market of wall plug adaptors
- Exchangeable AC-plugs for universal use
- Reliable front edge fly-back design with very low component count
- Very low leakage current
- Class II double isolation and UL/IEC60601-1 ed.3 medical approval
- Made by Ulf Hanses, a world famous industrial designer

Medline EXM120 Series

120W Single Output



Minimum volumes required

Web code
MED120

- High reliability
- Low component count
- Extra low leakage
- Less than 0.3 watts in zero load consumption
- "Floor-top" external adaptor
- Exchangeable AC cable
- Dimensions 160mm circular, 45mm height
- Designed for medical home care applications

Medline EXM150 Series

150W Single Output



Web code
MED150

- High reliability
- Low component count
- Extra low leakage
- "Floor-top" external adaptor
- Exchangeable AC cable
- Exchangeable DC cable
- Dimensions 190mm circular, 45mm height
- Safety approvals IEC/EN/60601-1 ed. 3 (pending)

Medline EXM225 Series

225W Single Output



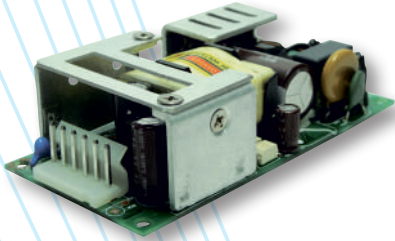
Web code
MED225

- Powerbox one-step" conversion topology
- High reliability
- Low component count
- Extra low leakage
- Less than 0.3 watts in zero load consumption
- "Floor-top" external adaptor
- Exchangeable AC cable
- Exchangeable DC cable
- Dimensions 190mm circular, 45mm height
- Designed for medical home care applications
- Safety approvals IEC/EN/60601-1 ed. 3 (pending)

MEDICAL GRADE

Medline 40 Series

30-48W Multiple Output

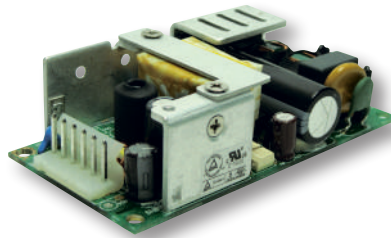


Web code
MED40

- Medical and industrial approvals
- Compact size 2" x 4" x 1.18"
- Single, dual and triple outputs
- Wide range input 90-264 VAC
- Low earth leakage current
- Level B emissions
- RoHS compliant
- IEC60601-1 ed. 3 approved

Medline 60 Series

37.5-64W Single Output

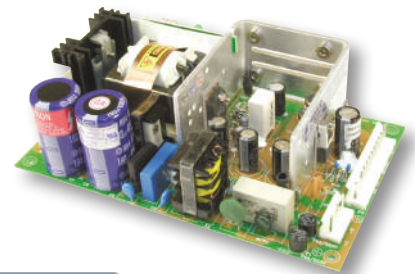


Web code
MED60

- Medical and ITE approvals
- Compact size 2" x 4" x 1.18"
- Single, dual and triple outputs
- Wide-range input 90-264 VAC
- Low earth leakage current
- Level B emissions
- RoHS compliant
- IEC60601-1 ed. 3 approved

Medline 110 Series

72-110W Multiple Output



Web code
MED110

- Low safety ground leakage current
- Meet EN55011 and FCC Class B
- Small size, light weight
- 100% burn-in
- Wide input range 85-264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection
- Compliant with RoHS requirements
- IEC60601-1 ed. 3 approved

Medline 200 Series

200W Multiple Output



Web code
MED200

- Small size – only 7 x 4 x 1.5 inches
- High reliability – 350khrs MTBF
- Low safety ground leakage current
- Meet EN 55011 and FCC Class B
- Power Factor 0.98 typical
- Short-circuit protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Optional cover- and fan assembly
- IEC60601-1 ed. 3 approved

Medline 300 Series

300W Multiple Output



Web code
MED300

- Small size – only 7.5 x 4.5 x 1.75 inches
- High reliability – 350khrs MTBF
- EN61000-3-2 class A and D compliant
- Power factor 0.98 typical
- Overvoltage protection
- Short-circuit protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Remote sense on output 1 and output 2
- Remote inhibit – TTL high disables output
- IEC60601-1 ed. 3 approved

Medline 450 Series

350-480W Multiple Output



Web code
MED450

- Small size – only 10 x 4.5 x 2.5 inches
- High reliability – 300khrs MTBF
- EN61000-3-2 class A and D compliant
- Power factor 0.98 typical
- Overvoltage protection
- Short-circuit protection
- Thermal protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Remote sense on output 1 and output 2
- Remote inhibit – TTL high disables output
- IEC60601-1 ed. 3 approved

Medline 650 Series

650-700W Multiple Output



Web code
MED650

- Small size – only 10.5 x 5 x 2.5 inches
- High reliability – 300khrs MTBF
- EN61000-3-2 class A and D compliant
- Power factor 0.98 typical
- Overvoltage protection
- Short-circuit protection
- Thermal protection
- Power Fail Detect (PFD) signal
- 100% burn-in at full rated load
- Remote sense on output 1 and output 2
- Remote inhibit – TTL high disables output
- IEC60601-1 ed. 3 approved

Medline 200A Series

200W Single Output

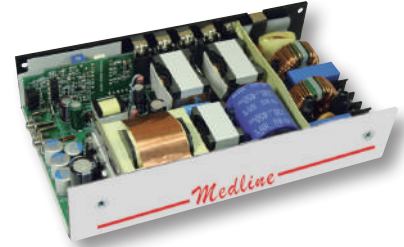


Web code
MED200A

- 3 x 5 inch footprint with 1.5 inch low profile
- 100-240VAC input with active PFC
- Less than 220mA leakage current
- Meet EN 55011/55022 and FCC class B
- Power factor 0.98 typical
- Short circuit protection
- Power Fail Detect (PFD) signal
- Inhibit-TTL high to disable outputs
- Average active efficiency >87%
- RoHS compliant
- IEC60601-1 ed. 3 approved

Medline 400A Series

400W Single Output



Web code
MED400A

- Compact size 4" x 7" x 1.58"
- Power Factor 0.98 typical
- Less than 100 uA leakage current
- 300W convection rating
- 400W with 5 CFM(100 LFM) fan
- Standby output 5 Vdc, 100 mA
- Compliance to EN55011
- Compliant with RoHS requirements
- Inhibit-TTL low disables output
- PS Off, DC OK, remote sense
- Active efficiency ≥87%
- IEC60601-1 ed. 3 approved

Medline OFM100 Series

100W Single Output



Unmatched power density, ultra low leakage

Web code
MED100

- High power density 12.5W/sq inch
- Reliable front edge fly-back design with very low component count
- Standard 2x4 inch footprint
- Very low leakage current allow parallel connection for higher output power requirements
- Less than 0.3W in zero load consumption
- IEC60601-1 ed. 3 approved

Medline OFM225 Series

225W Single Output



Preliminary

- De facto industry standard 3 x 5 inch
- Powerbox "one step conversion topology"
- High reliability
- Low component count
- Extra low leakage
- Less than 0.3W in zero load consumption
- Safety approvals IEC/EN60601-1 ed. 3 (pending)

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