

Industrial Power Supply

- ☐ Telecom Power
- ☐ Server Power
- ☐ Electric Power
- ☒ Medical Power
- ☐ High-voltage Power
- ☐ Display Power
- ☐ Solar Energy
- ☐ Energy Storage
- ☐ Charging Solution
- ☐ OA Power
- ☐ Flat Panel Power Supply

Industry Automation

- ☐ AC Drive
- ☐ Servo System
- ☐ Control System
- ☐ Encoder
- ☐ IOT
- ☐ Internal Gear Pump
- ☐ Vehicle Integration Controller
- ☐ Elevator Integration Controller

New Energy Vehicle & Rail Transit

- ☐ OBC
- ☐ DC-DC
- ☐ Inverter
- ☐ PEU
- ☐ E-Compressor
- ☐ Thermal System
- ☐ Motor Driver
- ☐ PFC
- ☐ Air-conditioning Controller

Intelligent Equipment

- ☐ Intelligent Digital Welding Machine
- ☐ Industrial Microwave Equipment
- ☐ Electric Submersible Progressing Cavity Pumping (ESPCP) System

Drive & Control for Smart Home Appliances

- ☐ Heat, Ventilation, Air-conditioning (HVAC)
- ☐ Cold Chain & Refrigeration
- ☐ Washing Machine & Dryer
- ☐ Kitchen Electronics
- ☐ Smart Bidet

Connecting Cable

- ☐ FFC
- ☐ FPC
- ☐ Varnished Wire
- ☐ Mini Coaxial Cable

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Q Megmeet Electrical









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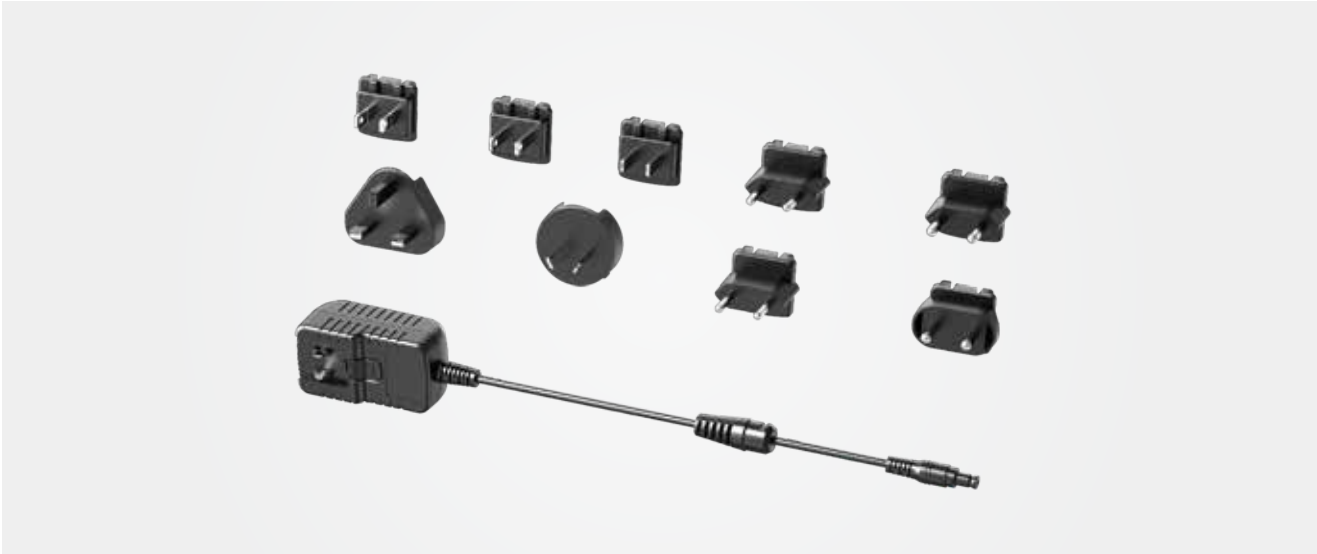
Medical Power Supply Solutions

Relying on more than 20 years of technological accumulation in the power supply industry, Megmeet provides the power supply solutions with high efficiency, high power density and high reliability for the medical field customers.



MANGO12SC Series

The MANGO12SC series is an AC-DC wall adapter designed for medical applications. Reliable low cost medical adapters available in US, EU, UK and AU/NZ interchangeable plug styles. The series meets all current IEC 60601-1 medical compliance requirements including 4th edition EMC and level VI efficiency. Easily customizable, choose from standard DC plugs or add the plug of your choice for trouble-free system integration. Products available with multiple plug styles.



Key Features

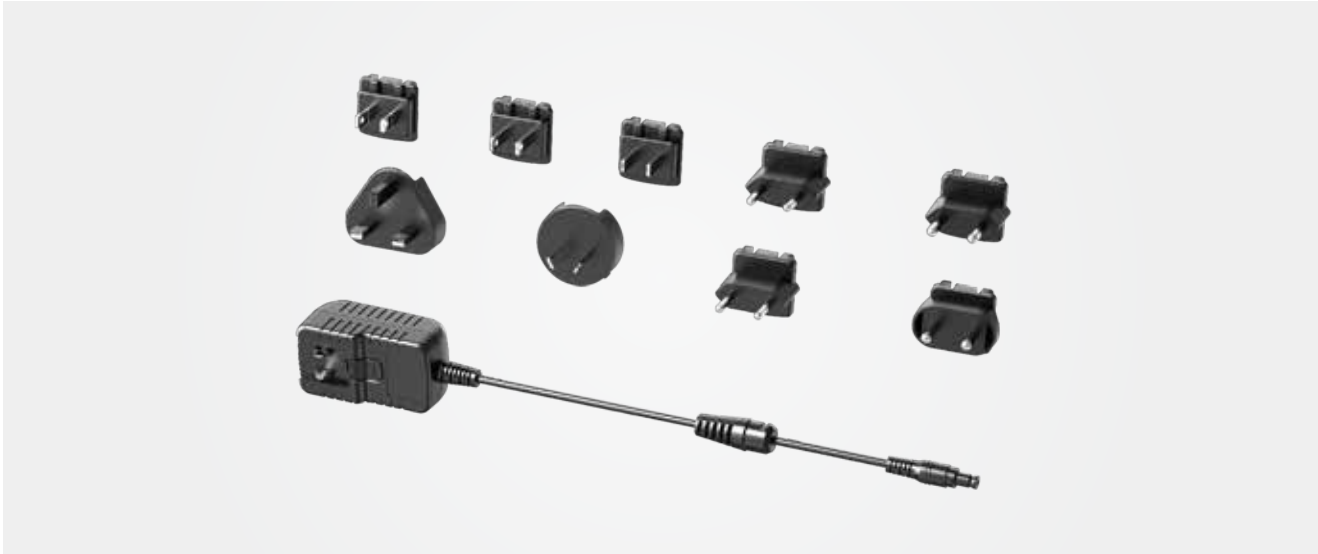
- Medical 60601-1 safety approvals
- US, UK, AU, EU, CN, KR, IN or BR wall mount packages
- EN55011 / FCC part 15 class B emissions
- Class II construction
- High efficiency - level VI
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	0.3ARMS @ 100VAC	Total Regulation	±5%
Inrush Current	<80A @ 230VAC, cold start	Isolation	4000VAC - input to output ; 2xMOPP
Power Factor	EN61000-3-2, class A	Operating Temperature	0 to +40°C
Touch Current	<100µA @ 264VAC	Derating	5%/°C >40°C, up to 50°C max
No Load Input Power	<75mW @ 230VAC	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140% , hiccup, auto-recovery	Operating Altitude	4000M (max)
Over-load	Hiccup, auto-recovery	Efficiency	83/88% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	800K Hrs, Telecordia SR-332 @ 115VAC, full load, 25°C
Over-temperature	Auto recovery with hysteresis	Weight	150g ref
Dimension	3.00" x 1.64" x 1.52" / 76.2mm x 41.66mm x 38.6mm		

Output Voltage	5V	7.5V	9V	12V	15V	18V	24V
Output Current	2.40A	1.60A	1.34A	1.00A	0.80A	0.67A	0.50A
Output Ripple & Noise	60mV	100mV	120mV	120mV	150mV	180mV	200mV

MANGO18SC Series

The MANGO18SC series is an AC-DC wall adapter designed for medical applications. Reliable low cost medical adapters available in US, EU, UK and AU/NZ interchangeable plug styles. The series meets all current IEC 60601-1 medical compliance requirements including 4th edition EMC and level VI efficiency. Easily customizable, choose from standard DC plugs or add the plug of your choice for trouble-free system integration. Products available with multiple plug styles.



Key Features

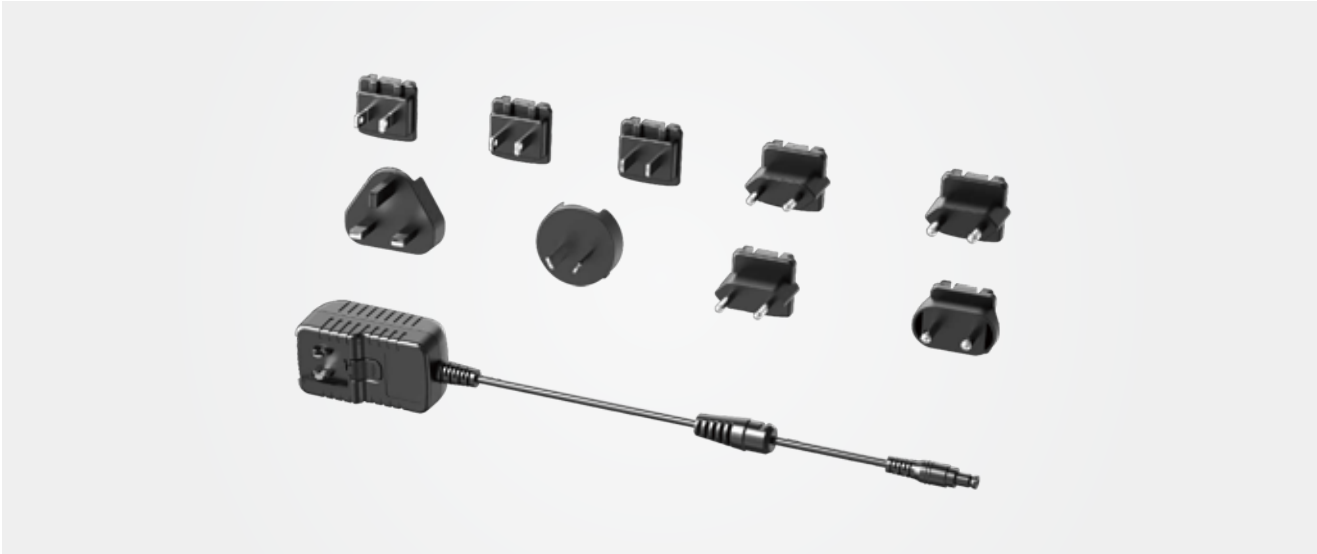
- Medical 60601-1 safety approvals
- US, UK, AU, EU, CN, KR, IN or BR wall mount packages
- EN55011 / FCC part 15 class B emissions
- Class II construction
- High efficiency-level VI
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	0.5ARMS @ 115VAC	Total Regulation	±5%
Inrush Current	<80A @ 230VAC, cold start	Isolation	4000VAC - input to output ; 2xMOPP
Power Factor	EN61000-3-2, class A	Operating Temperature	0 to +40°C
Touch Current	<100µA @ 264VAC	Derating	5%/°C >40°C, up to 50°C max
No Load Input Power	<75mW @ 230VAC	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140% , hiccup, auto-recovery	Operating Altitude	4000M (max)
Over-load	Hiccup, auto-recovery	Efficiency	83/88% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	800K Hrs, Telecordia SR-332 @ 115VAC, full load, 25°C
Over-temperature	Auto recovery with hysteresis	Weight	150g ref
Dimension	3.00" x 1.64" x 1.52" / 76.2mm x 41.66mm x 38.6mm		

Output Voltage	5V	7.5V	9V	12V	15V	18V	24V
Output Current	3.00A	2.40A	2.00A	1.50A	1.20A	1.00A	0.75A
Output Ripple & Noise	60mV	100mV	120mV	120mV	150mV	180mV	200mV

MANGO24SC Series

The MANGO24SC series is an AC-DC wall adapter designed for medical applications. Reliable low cost medical adapters available in US, EU, UK and AU/NZ interchangeable plug styles. The series meets all current IEC 60601-1 medical compliance requirements including 4th edition EMC and level VI efficiency. Easily customizable, choose from standard DC plugs or add the plug of your choice for trouble-free system integration. Products available with multiple plug styles.



Key Features

- Medical 60601-1 safety approvals
- US, UK, AU, EU, CN, KR, IN or BR wall mount packages
- EN55011 / FCC part 15 class B emissions
- Class II construction
- High efficiency-level VI
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	0.7A _{RMS} @ 115VAC	Total Regulation	±5%
Inrush Current	<80A @ 230VAC, cold start	Isolation	4000VAC – input to output ; 2xMOPP
Power Factor	EN61000-3-2, class A	Operating Temperature	0 to +40°C
Touch Current	<100µA @ 264VAC	Derating	5%/°C >40°C, up to 50°C max
No Load Input Power	<75mW @ 230VAC	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140% , hiccup, auto-recovery	Operating Altitude	4000M (max)
Over-load	Hiccup, auto-recovery	Efficiency	81/86% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	800K Hrs, Telecordia SR-332 @ 115VAC, full load, 25°C
Over-temperature	Auto recovery with hysteresis	Weight	150g ref
Dimension	3.00" x 1.64" x 1.52" / 76.2mm x 41.66mm x 38.6mm		

Output Voltage	5V	7.5V	9V	12V	15V	18V	24V
Output Current	4.00A	3.20A	2.67A	2.00A	1.60A	1.33A	1.00A
Output Ripple & Noise	60mV	100mV	120mV	120mV	150mV	180mV	200mV

MANGO15W Series

MANGO15W series are AC-DC wall plug adapters designed for medical applications. The adapters are fixed input plugs with high efficiency and low power consumption to meet the energy efficiency class VI; the main advantage of this series is highly integrated functionality to reduce the peripheral circuits, which makes the products cost-effective; the products also have complete and precise protection functions, which gives them the advantages of high safety and reliability.



Key Features

- Universal input without ouput power derating
- Compact size 2.33" x 1.61" x 1.00"
- High efficiency up to 89% (not including output cable)
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
- Suitable for class II installation
- Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	0.4A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	80A typical @ 230VAC, cold start	Isolation	4000VAC – input to output ; 2xMOPP
Patient Leakage Current	<100µA @ 264VAC	Operating Temperature	0 to +40°C
No Load Input Power	<0.1W @ 230VAC	Derating	2.5%/°C >40°C, up to 60°C max
Transient Response	±5%, 5% to 50% or 50% to 100%	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140%, hiccup, auto-recovery	Operating Altitude	5000M
Over-load	Hiccup, auto-recovery	Efficiency	82/87% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C
Over-temperature	Auto recovery with hysteresis	Weight	120g ref
Dimension	2.33"x 1.61"x 1.00" / 59mm x 40.9mm x 25.4 mm		

Output Voltage	5V	7.5V	9V	12V	15V	18V	24V
Output Current	2.50A	2.00A	1.66A	1.25A	1.00A	0.83A	0.625A
Output Ripple & Noise	100mV	100mV	120mV	120mV	150mV	180mV	240mV

MANGO18W Series

MANGO18W series are AC-DC wall plug adapters designed for medical applications. The adapters are fixed input plugs with high efficiency and low power consumption to meet the energy efficiency class VI; the main advantage of this series is highly integrated functionality to reduce the peripheral circuits, which makes the products cost-effective; the products also have complete and precise protection functions, which gives them the advantages of high safety and reliability.



Key Features

- Universal input without ouput power derating
 - Compact size 2.33" x 1.61" x 1.00"
 - High efficiency up to 89% (not including output cable)
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
 - Suitable for Class II installation
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	0.5A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	80A typical @ 230VAC, cold start	Isolation	4000VAC – input to output ; 2xMOPP
Patient Leakage Current	<100µA @ 264VAC	Operating Temperature	0 to +40°C
No Load Input Power	<0.1W @ 230VAC	Derating	2.5%/°C >40°C, up to 60°C max
Transient Response	±5%, 5% to 50% or 50% to 100%	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140%, hiccup, auto-recovery	Operating Altitude	5000M
Over-load	Hiccup, auto-recovery	Efficiency	82/87% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C
Over-temperature	Auto recovery with hysteresis	Weight	120g ref
Dimension	2.33" x 1.61" x 1.00" / 59mm x 40.9mm x 25.4 mm		

Output Voltage	5V	7.5V	9V	12V	15V	18V	24V
Output Current	3.00A	2.40A	2.00A	1.50A	1.20A	1.00A	0.75A
Output Ripple & Noise	100mV	100mV	120mV	120mV	150mV	180mV	240mV

MANGO52W Series

The MANGO52W series is an AC-DC wall adapter designed for medical and ITE/AV applications. This reliable low cost adapter meets all current IEC 60601-1 medical compliance requirements including 4th edition EMC and level VI efficiency and is suitable for 60601-1-11 Home health care applications. Easily customizable, choose from standard DC plugs or add the plug of your choice for trouble-free system integration.



Key Features

- 52W rated power / 75W peak power @ 5s
 - Compact size 3.46" × 1.93" x 1.18"
 - High efficiency up to 94% (not including output cable)
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
 - Suitable for class II installation
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	1.2A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Isolation	4000VAC – input to output; 2xMOPP
No Load Input Power	<0.15W @ 230VAC	Operating Temperature	0 to +50°C
Touch Current	<100µA @ 264VAC	Derating	2.0%/°C >50°C, up to 60°C max
Patient Leakage Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140% , hiccup, auto-recovery	Operating Altitude	5000M
Over-load	Hiccup, auto-recovery	Efficiency	90% to 92% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	500K Hrs, Telecordia SR-332 @ 25°C
Over-temperature	Auto recovery with hysteresis	Weight	250g ref
Dimension	3.46" x 1.93" x 1.18" / 88mm x 49mm x 30mm		

Output Voltage	12V	15V	19V	24V
Output Current	4.33A	3.47A	2.74A	2.17A
Peak Current @ 5S	6.00A	5.00A	3.94A	3.12A

MANGO52H Series

The MANGO52H Series series is an AC-DC desktop adapter designed for medical and commercial applications. This reliable low cost adapter meets all current IEC 60601-1 medical compliance and ITE/AV IEC62368-1 requirements including 4th edition EMC and level VI efficiency.



Key Features

- 52W rated power / 75W peak power @ 5s
 - Compact size 4.13" x 1.97" x 1.14"
 - High efficiency up to 94% (not including output cable)
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
 - Suitable for class I and class II installations
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	1.2A _{max} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Operating Temperature	0 to +50°C
No Load Input Power	<0.15W @ 230VAC	Derating	2.0%/°C >50°C, up to 60°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Earth Leakage Current	<100µA @ 264VAC (class I)	Operating Altitude	5000M
Over-voltage	110 to 140% , hiccup, auto-recovery	Efficiency	90% to 92% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	500K Hrs, Telecordia SR-332 @ 25°C
Short Circuit	Hiccup, auto-recovery	Weight	250g ref
Over-temperature	Auto recovery with hysteresis	Dimension	4.13" x 1.97" x 1.14" / 105mm x 50mm x 29mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	12V	15V	19V	24V
Output Current	4.33A	3.47A	2.74A	2.17A
Peak Current @ 5S	6.00A	5.00A	3.94A	3.12A

MANGO68W Series

The MANGO68W series is an AC-DC wall adapter designed for medical applications. This reliable low cost medical adapter meets all current IEC 60601-1 medical compliance requirements including 4th edition EMC and level VI efficiency and is suitable for 60601-1-11 Home health care applications. Easily customizable, choose from standard DC plugs or add the plug of your choice for trouble-free system integration.



Key Features

- 68W rated power / 95W peak power @ 5s
 - Compact size 3.46" x 1.93" x 1.18"
 - High efficiency up to 94% (not including output cable)
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
 - Suitable class II installations
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	1.5A _{max} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Operating Temperature	0 to +40°C
No Load Input Power	<0.15W @ 230VAC	Derating	2.0%/°C > 40°C, up to 60°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Patient Leakage Current	<100µA @ 264VAC	Operating Altitude	5000M
Over-voltage	110 to 140% , hiccup, auto-recovery	Efficiency	90% to 92% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	500K Hrs, Telecordia SR-332 @ 25°C
Short Circuit	Hiccup, auto-recovery	Weight	300g ref
Over-temperature	Auto recovery with hysteresis	Dimension	3.46" x 1.93" x 1.18" / 88mm x 49mm x 30mm
Isolation	4000VAC – input to output; 2xMOPP		

Output Voltage	12V	15V	19V	24V
Output Current	5.41A	4.53A	3.58A	2.83A
Peak Current @ 5S	7.0A	6.0A	5.0A	4.0A

MANGO68H Series

The MANGO68H series meets all medical and commercial compliance requirements including 4th edition EMC and level VI efficiency. MANGO68H adapters feature user-definable IEC 320 Inlet plug styles for class I and class II installation options and standard DC outputs from 12V to 24V.



Key Features

- 68W rated power / 100W peak power @ 5s
- Compact size 4.13" x 1.97" x 1.14"
- High efficiency up to 92%
- Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
- Suitable for class I and class II installations
- Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	1.5A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Operating Temperature	0 to +40°C
No Load Input Power	<0.15W @ 230VAC	Derating	2.0%/°C > 40°C, up to 60°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Earth Leakage Current	<100µA @ 264VAC (class I)	Operating Altitude	5000M
Over-voltage	110 to 140% , hiccup, auto-recovery	Efficiency	90% to 92% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	500K Hrs, Telecordia SR-332 @ 25°C
Short Circuit	Hiccup, auto-recovery	Weight	300g ref
Over-temperature	Auto recovery with hysteresis	Dimension	4.13" x 1.97" x 1.14" / 105mm x 50mm x 29mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	12V	15V	19V	24V
Output Current	5.41A	4.53A	3.58A	2.83A
Peak Current @ 5S	7.00A	6.00A	5.20A	4.20A

MANGO60S-USB-PDX Series

MANGO60S-USB-PDX series is an AC-DC desktop adapter designed for medical applications. This series is a single power supply solution for all USB PD enable products regardless of power and voltage requirements. This series meets all medical compliance requirements including 4th edition EMC and level V efficiency.



Key Features

- Medical 60601-1 safety approvals
- Small 4.17" x 2.24" x 1.14" footprint
- High efficiency-level V
- High power density-5.63W / in3
- Class I or class II construction
- IP22 rated enclosure
- CEC 2008 / ERP2 / EISA 2007 compliant
- EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	1.5A _{RMS} @ 115VAC	Total Regulation	±5%
Inrush Current	<80A @ 240VAC, 25°C , cold start	Operating Temperature	0 to +40°C
No Load Input Power	<0.1W @ 230VAC	Derating	5.0%/°C > 40°C, up to 50°C max
Leakage Current	<100µA @ 264VAC	Operating Humidity	10 to 95% (non-condensing)
Power Factor	N/A	Operating Altitude	4000M
Over-voltage	110 to 140%, latching	Efficiency	87% typical @ 115/230VAC, 20VDC 80% typical @ 115/230VAC, 5VDC
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hrs, Telecordia SR-332 @ 25°C
Short Circuit	Continuous	Weight	300g
Over-temperature	Latching, recycle input and cool to reset	Dimension	4.17" x 2.24" x 1.14" / 106mm x 57mm x 29mm
Isolation	4000VAC – input to output; 1500VAC – input to ground; 500VDC – output to ground		

AC Input Connector	C14	C8	C18
Output Voltage	5V/9V/15V/20V*	5V/9V/15V/20V*	5V/9V/15V/20V*
Ripple & Noise (Max)	150mV pk-pk max	150mV pk-pk max	150mV pk-pk max

MANGO100S Series

A modern design technology yields over 88% average efficiency in a small, light weight package. The MANGO100S meets all Medical and Commercial compliance requirements including 4th edition EMC and level VI efficiency, and is ideal for home based medical applications or devices.



Key Features

- Medical 60601-1 safety approvals
- Class II construction
- CEC 2008 / ErP2 / EISA 2007 compliant
- Universal AC input with active PFC
- High efficiency-level VI
- EN55011 / FCC part 15 class B emissions
- IP22 rated enclosure
- High power density-5.4W/in3

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	2.0Arms @ 115VAC	Total Regulation	±5%
Inrush Current	<120A @ 240VAC, cold start	Operating Temperature	0 to +40°C
No Load Input Power	≤0.15W @ 240VAC	Derating	5%/°C > 40°C, up to 50°C max
Power Factor	>0.95	Operating Humidity	10 to 95% (non-condensing)
Leakage Current	<100µA @ 264VAC	Operating Altitude	4000M (max)
Over-voltage	110 to 140%, latching	Efficiency	88% typical @ 115/230VAC, full load
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Continuous	Weight	500g ref
Over-temperature	Latching, recycle input and cool to reset	Dimension	5.57" x 2.46" x 1.22" / 141.5mm x 62.5mm x 31.1mm
Isolation	4000VAC – input to output		

Output Voltage	12V	15V	19V	24V	28V
Output Current	8.33A	6.66A	5.20A	4.16A	3.57A
Ripple & Noise (Max)	120mV	150mV	190mV	240mV	280mV

MANGO100S-USB-PDX Series

MANGO100S-USB series is an AC-DC desktop adapter designed for medical applications. This series power supply is the single power supply solution for all USB PD enabled products regardless of power and voltage requirements. This series meets all medical compliance requirements including 4th edition EMC and level VI efficiency.



Key Features

- Medical 60601-1 safety approvals
- High power density - 5.4W/in3
- High efficiency - DoE EPS - level VI
- Universal AC input with active PFC
- IP22 rated enclosure
- EN55011 / FCC part 15 class B emissions
- Small 5.57" x 2.46" x 1.22" footprint
- Class II construction

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	2.0Arms @ 115VAC	Total Regulation	±5%
Inrush Current	<120A @ 240VAC, 25°C ,cold start	Operating Temperature	0 to +40°C
Power Factor	>0.91	Derating	5.0%/°C > 40°C, up to 50°C max
Leakage Current	<100µA @ 264VAC	Operating Humidity	10 to 95% (non-condensing)
No Load Input Power	<0.15W @ 240VAC	Operating Altitude	4000M
Over-voltage	110 to 140%, latching	Efficiency	88% typical @ 115/230VAC, full load
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Continuous	Weight	500g
Over-temperature	Latching, recycle input and cool to reset	Dimension	5.57" x 2.46" x 1.22" / 141.5mm x 62.5mm x 31.1 mm
Isolation	4000VAC – input to output		

AC Input Connector	C14	C8	C18
Output Voltage	5V/9V/15V/20V*	5V/9V/15V/20V*	5V/9V/15V/20V*
Ripple & Noise (Max)	150mV pk-pk max	150mV pk-pk max	150mV pk-pk max

MANGO120S Series

The cost competitive MANGO120S can be ordered as a class I or class II device. An optimized PFC + LLC with synchronous rectification yields up to 95% efficiency and meets all medical and commercial compliance requirements. The series has low standby power consumption and excellent EMC performance, which makes it prefect for ventilators, oxygen concentrators, ultrasound equipment and other portable home medical equipment and hospital medical equipment.



Key Features

- Medical 60601-1 safety approvals
 - Universal AC input with active PFC
 - Class I or class II construction
- High power density-6.4W / in3
 - IP22 rated enclosure
 - High efficiency-level VI
- Small 6.02" x 2.43" x 1.28" footprint
 - EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	2.0ARMS @ 115VAC	Total Regulation	±5%
Inrush Current	<120A @ 240VAC, cold start	Operating Temperature	0 to +40°C
Earth Leakage Current	<150µA @ 264VAC (class I)	Derating	2.5%/°C > 40°C, up to 50°C max
Patient Leakag Current	<100µA @ 264VAC	Operating Humidity	10 to 95% (non-condensing)
No Load Input Power	<0.21W @ 240VAC	Operating Altitude	5000M (max)
Over-voltage	110 to 140%, latching	Efficiency	88% to 93% typical @ 115/230VAC, full load
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C, full load
Short Circuit	Continuous	Weight	500g ref
Over-temperature	Latching, recycle input and cool to reset	Dimension	6.02" x 2.43" x 1.28" / 153mm x 61.7mm x 32.5mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP(class I); 1500VAC – output to ground; 1xMOPP(class I)		

Output Voltage	12V	15V	19V	24V	26V	28V
Output Current	10.00A	8.00A	6.30A	5.00A	4.60A	4.30A
Output Ripple & Noise	120mV	150mV	190mV	240mV	260mV	280mV

MDP120 Series

MDP120 series is a non-isolated DC to DC adapter power supply ideal for mobile devices. The series is designed to run on nominal 12V power found in auto, aircraft and portable power packs. It is designed to run prefectly for ventilators, oxygen concentrators, portable ultrasound instruments, emergency transport and other medical equipment uses. This product has high power density, small volume, high working efficiency, and meets all medical compliance requirements including 4th edition EMC and level VI efficiency.



Key Features

- Medical 60601-1 safety approvals
 - 12V input range (11.5 to 16VDC)
 - High power density-7.68W/in3
- 3-year warranty
 - Robust input connector
- EN55011 / FCC part 15 class B emissions
 - Small 5.18" x 2.43" x 1.24" footprint

Parameter			
Input Voltage	11.5 to 16.0VDC	Line Regulation	±0.5%
Input Current	18A at 12VDC	Load Regulation	±5%
Input Voltage Protection	32VDC, 10 secs without damage	Total Regulation	±5%
Inrush Current	<25A @ 11.5VDC, cold start	Operating Temperature	-15 to +40°C
Under Voltage Lockout	Shutdown below 11.0VDC, auto-recovery	Derating	5%/°C >40°C, up to 50°C max
Over Voltage Lockout	Shutdown >17.5VDC, auto-recovery	Operating Humidity	10 to 95% (non-condensing)
Over Current	Shut-down when input >20A, auto-recovery	Operating Altitude	4000M (max)
Over-voltage	110 to 140%, latching	Efficiency	90% typical
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C, full load
Short Circuit	Continuous	Weight	480g
Isolation	Non-isolated	Dimension	5.18" x 2.43" x 1.24" / 131.6mm x 61.7mm x 31.5mm
Over-temperature	Latching, recycle input and cool to reset		

DC Output Voltage	19V	24V
Output Current	6.30A	5.00A
Ripple & Noise (Max)	190mV	240mV

MANGO150S Series

The MANGO150S is offered as both a class I and II device with single output DC voltages from 12V to 48V and meets all medical compliance requirements. An optimized PFC + LLC secondary yields up to 94% efficiency, allowing the series to have low standby power consumption, excellent EMC performance. This power supply is prefect for ventilators, oxygen concentrators, ultrasound equipment and other portable home medical equipment and hospital medical equipment.



Key Features

- Medical 60601-1 safety approvals
 - Universal AC input with active PFC
 - Class I or class II construction
- High power density-8W/in3
 - IP22 rated enclosure
 - High efficiency-level VI
- Small 6.02" x 2.43" x 1.28" footprint
 - EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±5%
Input Current	2.5A _{RMS} @ 115VAC	Total Regulation	±5%
Inrush Current	<150A @ 240VAC, 25°C ,cold start	Operating Temperature	0 to +40°C
Earth Leakage Current	<150µA @ 264VAC (class I)	Derating	2.5%/°C > 40°C, up to 50°C max
Patient Leakag Current	<100µA @ 264VAC	Operating Humidity	10 to 95% (non-condensing)
No Load Input Power	<0.21W @ 240VAC	Operating Altitude	5000M (max)
Over-voltage	110 to 140%, latching	Efficiency	90% to 94% typical at 115/230VAC, full load
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C, full load
Short Circuit	Continuous	Weight	610g ref
Over-temperature	Latching, recycle input and cool to reset	Dimension	6.02" x 2.43" x 1.28" / 153mm x 61.7mm x 32.5mm
Isolation	4000VAC – input to output; 2xMOPP ; 1500VAC – input to ground; 1xMOPP(class I) ; 1500VAC – output to ground; 1xMOPP(class I)		

Output Voltage	12V	15V	19V	24V	26V	28V
Output Current	12.50A	10.00A	7.90A	6.25A	5.78A	5.36A
Ripple & Noise (Max)	120mV	150mV	190mV	240mV	260mV	280mV

MDP150 Series

MDP150 series is a non-isolated DC to DC adapter power supply ideal for mobile devices. The series is designed to run on nominal 12V power found in auto, aircraft and portable power packs. It is designed to run prefectly for ventilators, oxygen concentrators, portable ultrasound instruments, emergency transport and other medical equipment uses. This product has high power density, small volume, high working efficiency, meets all medical compliance requirements including 4th edition EMC and level VI efficiency.



Key Features

- Medical 60601-1 safety approvals
 - 12V input range (11.5 to 16.0VDC)
 - High power density-7.3W/in3
- 3-year warranty
 - Robust input connector
- Small 5.80" x 2.87" x 1.19" footprint
 - EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	11.5 to 16.0VDC	Line Regulation	±0.5%
Input Current	18A at 12VDC	Load Regulation	±5%
Input Voltage Protection	32VDC, 10 secs without damage	Total Regulation	±5%
Inrush Current	<25A @ 11.5VDC, cold start	Operating Temperature	-15 to +40°C
Under Voltage Lockout	Shutdown below 11.0VDC, auto-recovery	Derating	5%/°C > 40°C, up to 50°C max
Over Voltage Lockout	Shutdown >17.5VDC, auto-recovery	Operating Humidity	10 to 95% (non-condensing)
Over Current	Shut-down when input >20A, auto-recovery	Operating Altitude	3000M (max)
Over-voltage	110 to 140%, latching	Efficiency	90% typical
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C, full load
Short Circuit	Continuous	Weight	450g
Isolation	Non-isolated	Dimension	5.80" x 2.87" x 1.19" / 147.3mm x 72.9mm x 30.2mm
Over-temperature	Latching, recycle input and cool to reset		

DC Output	19V	24V
Output Current	7.90A	6.25A
Ripple & Noise (Max)	190mV	240mV

MANGO180H Series

MANGO180H series is a modern designed medical adapter with class I & II available construction options. With up to 180w rated power, this product meets all medical and commercial compliance requirements including 4th edition EMC, ITE/AV dual certification, and level VI efficiency. The series works prefectly in ventilators, oxygen concentrators, ultrasound equipment and other portable home medical equipment and hospital medical equipment.



Key Features

- 180W rated power / 270W peak power @ 10s
 - Medical IEC60601-1 & ITE/AV IEC62368-1 safety approvals
 - Compact size 6.5" x 2.68" x 1.22"
 - Transient peak power up to 360W @ 40ms
- Suitable for class I and class II installations
 - High efficiency up to 95% (not including output cable)
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	2.5A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Operating Temperature	0 to +40°C
Earth Leakage Current	<250µA @ 264VAC(class I)	Derating	2.5%/°C > 40°C, up to 60°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Patient Leakage Current	<100µA @ 264VAC	Operating Altitude	5000M
Over-voltage	110 to 140%, latch off, recycle input to recovery	Efficiency	90% to 93% typical @ 115/230VAC, full load
Over-load	Hiccup mode, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C, full load
Short Circuit	Hiccup mode, auto-recovery	Weight	550g ref
Over-temperature	Auto recovery with hysteresis	Dimension	6.5" x 2.68" x 1.22" / 165mm x 68mm x 31mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP (class I); 1500VAC – output to ground; 1xMOPP(class I)		

Output Voltage	12V	15V	19V	24V	28V	32V	36V	48V
Output Current @ Rated	12.50A	11.00A	9.47A	7.50A	6.42A	5.62A	5.00A	3.75A
Output Ripple & Noise	120mV	150mV	190mV	240mV	280mV	320mV	360mV	480mV

MANGO240H Series

A workhorse in the desktop adapter family, this 240W design includes a two stage PFC and LLC secondary, yielding up to 95% efficiency in a remarkably small and light weight package considering the power level. The MANGO240H meets all medical and ITE/AV compliance requirements including 4th edition EMC and can be delivered as a class I or class II device.



Key Features

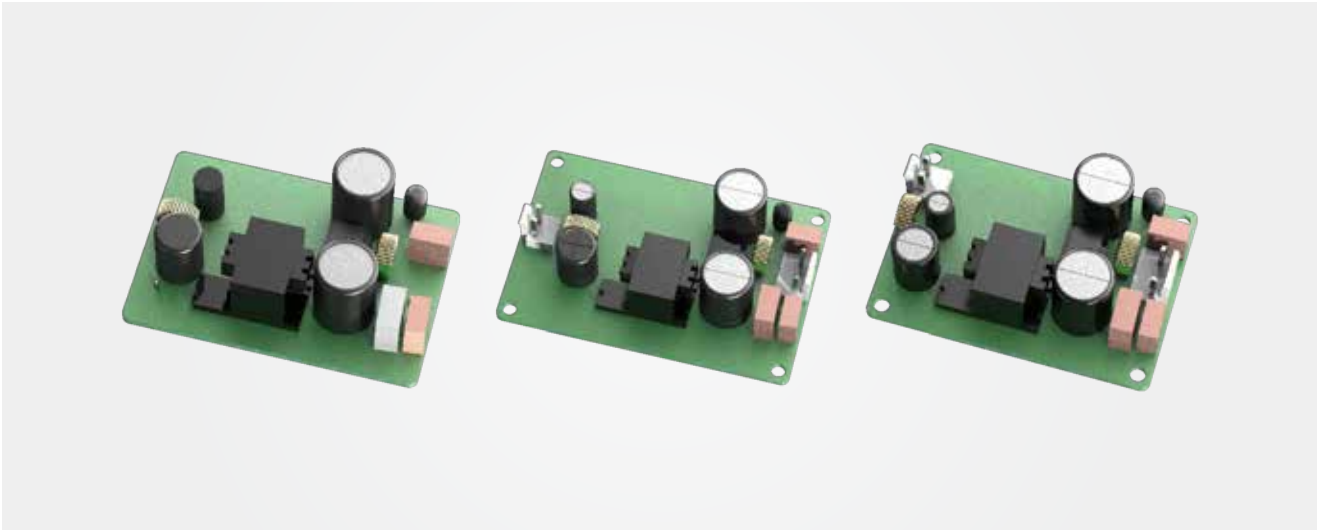
- 240W rated power / 360W peak power @ 10s
 - Medical IEC60601-1 & ITE / AV IEC62368-1 safety approvals
 - Compact size 6.81" x 3.05" x 1.34"
 - Transient peak power up to 480W @ 40ms
- Suitable for class I and class II installations
 - High efficiency up to 95% (not including output cable)
 - Suitable for type BF medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±4.5%
Input Current	3A _{MAX} @ 100VAC	Total Regulation	±5%
Inrush Current	100A typical @ 230VAC, cold start	Operating Temperature	0 to +40°C
Earth Leakage Current	<250µA @ 264VAC	Derating	2.5%/°C > 40°C, up to 60°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Patient Leakage Current	<100µA @ 264VAC	Operating Altitude	5000M
Over-voltage	110 to 140%, latch off, recycle input to recovery	Efficiency	90% to 93% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	500K Hours, Telecordia SR-332 @ 25 °C
Short Circuit	Hiccup, auto-recovery	Weight	700g ref
Over-temperature	Auto recovery with hysteresis	Dimension	6.81" x 3.05" x 1.34" / 173mm x 77.5mm x 34mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	12V	15V	19V	24V	28V	32V	36V	48V
Output Current @ Rated	17.50A	15.00A	12.63A	10.00A	8.57A	7.50A	6.66A	5.00A
Peak Current @ 10S	25.00A	22.00	18.50A	15.00A	12.85A	11.25A	10.00A	7.50A
Peak Current @ 40mS	33.00A	30.00A	25.00A	20.00A	17.14A	15.00A	13.30A	10.00A

MP24S Series

The MP24S series is an AC-DC open frame power supply designed for medical applications, and is available in two sizes (1.77" x 2.56", 2" x 3") and two connector types (optional pins or sockets) for flexibility in user applications. The series has the advantages of high efficiency, low power consumption, great EMC performance and protection. This small reliable AC-DC converter meets all medical compliance requirements including 4th edition EMC and level VI efficiency.



Key Features

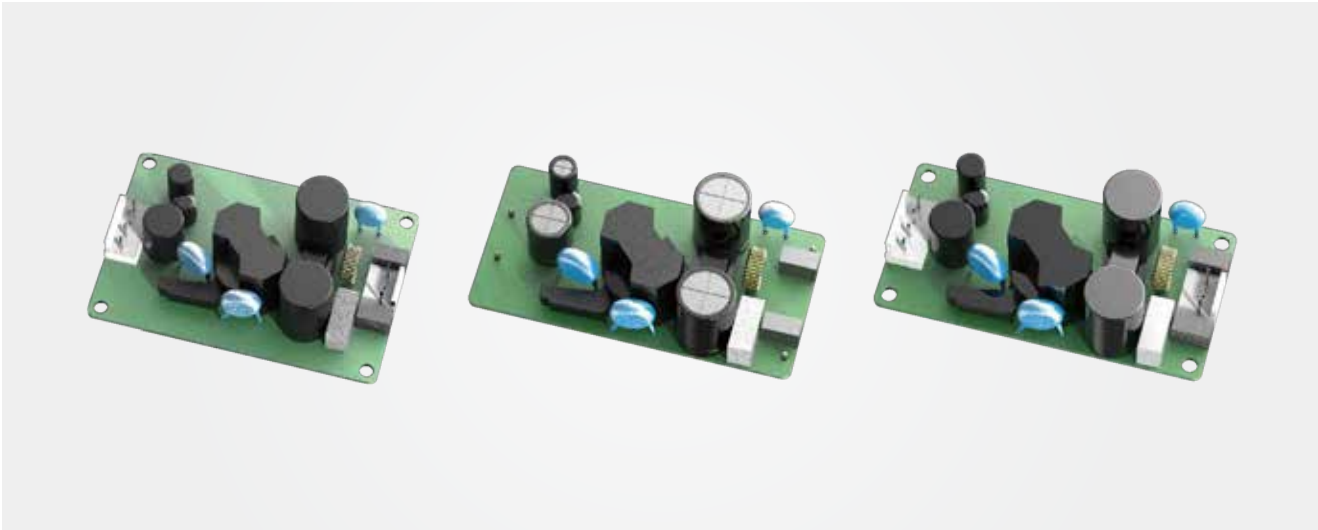
- Medical IEC60601-1 & ITE / AV IEC62368-1 safety approvals
 - Small 1.77" x 2.56" x 0.9" or 2" x 3" x 0.9" package
 - Suitable for type BF medical equipment
- Suitable for class II installation
 - High efficiency up to 90%
 - 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	0.6A _{MAX} @ 100VAC	Total Regulation	±3%
Inrush Current	80A typical @ 230VAC, cold start	Operating Temperature	0 to +50°C
No Load Input Power	<0.1W @ 230VAC	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Transient Response	±5%, 5% to 50% or 50% to 100%	Operating Altitude	5000M
Over-voltage	110 to 140% , hiccup, auto-recovery	Efficiency	85%/87% typical @ 115/230VAC, full Load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, Telecordia SR-332 @ 35 °C
Short Circuit	Hiccup, auto-recovery	Weight	60g ref
Over-temperature	Auto recovery with hysteresis	Isolation	4000VAC – input to output; 2xMOPP
Dimension	2" x 3" x 0.9" or 1.77" x 2.56" x 0.9" or 1.77" x 2.56" x 1.04" / 50.8mm x 76.2mm x 23.5mm or 45mm x 65mm x 26.5mm or 45mm x 65mm x 23.5mm		

Output Voltage	5V	9V	12V	15V	18V	24V
Output Current	4.00A	2.33A	2.00A	1.60A	1.33A	1.00A
Output Ripple & Noise	100mV	120mV	120mV	150mV	180mV	240mV

MP30S Series

The MP30S series is an AC-DC open frame power supply designed for medical applications and is available in two sizes (1.5" x 3", 2" x 3") and different connector types (pins or sockets) for flexibility. The series has the advantages of high efficiency, low power consumption, great EMC performance and protection. This small reliable AC-DC converter meets all medical compliance requirements including 4th Edition EMC and level VI efficiency.



Key Features

- Medical IEC60601-1 safety approvals
 - Small 1.5" x 3" x 0.9" or 2" x 3" x 0.9" or 1.5" x 3" x1.06" inch package
 - Suitable for type BF medical equipment
- Suitable for class II installation
 - High efficiency up to 90%
 - 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	0.9A _{RMS} @ 100VAC	Total Regulation	±3%
Inrush Current	< 80A @ 230VAC, cold start	Isolation	4000VAC to input to output; 2xMOPP
No Load Input Power	<0.1W @ 230VAC	Operating Temperature	0 to +50°C
Touch Current	<100µA @ 264VAC	Derating	2.5%/°C > 50°C, up to 70°C max
Transient Response	±5%, 5% to 50% or 50% to 100%, slew rate 0.5A/µS	Operating Humidity	5 to 95% (non-condensing)
Over-voltage	110 to 140% hiccup,recycle input to recovery	Operating Altitude	5000M
Over-load	Hiccup, auto-recovery	Efficiency	86%/88% typical @ 115/230VAC, full load
Short Circuit	Hiccup, auto-recovery	MTBF	800K Hours, Telecordia SR-332 @ 35 °C
Over-temperature	Auto recovery with hysteresis	Weight	60g ref
Dimension	1.5" x 3" x 0.9" or 2" x 3" x 0.9" or 1.5" x 3" x 1.06" / 38.1mm x 76.2mm x 23.5mm or 50.8mm x 76.2mm x 23.5mm or 38.1mm x 76.2mm x 26.5mm		

Output Voltage	5V	9V	12V	15V	18V	24V
Output Current	5.00A	3.33A	2.50A	2.00A	1.67A	1.25A
Output Ripple & Noise	60mV	120mV	120mV	150mV	180mV	240mV

MP45S Series

Open-frame medical AC/DC power supply for up to 45 watts. This reliable converter meets all medical compliance requirements including 4th edition EMC and level VI efficiency. Available in single output DC voltages from 5V to 24V. It is widely used in infusion pump, medical emergency alarm, and other medical applications.



Key Features

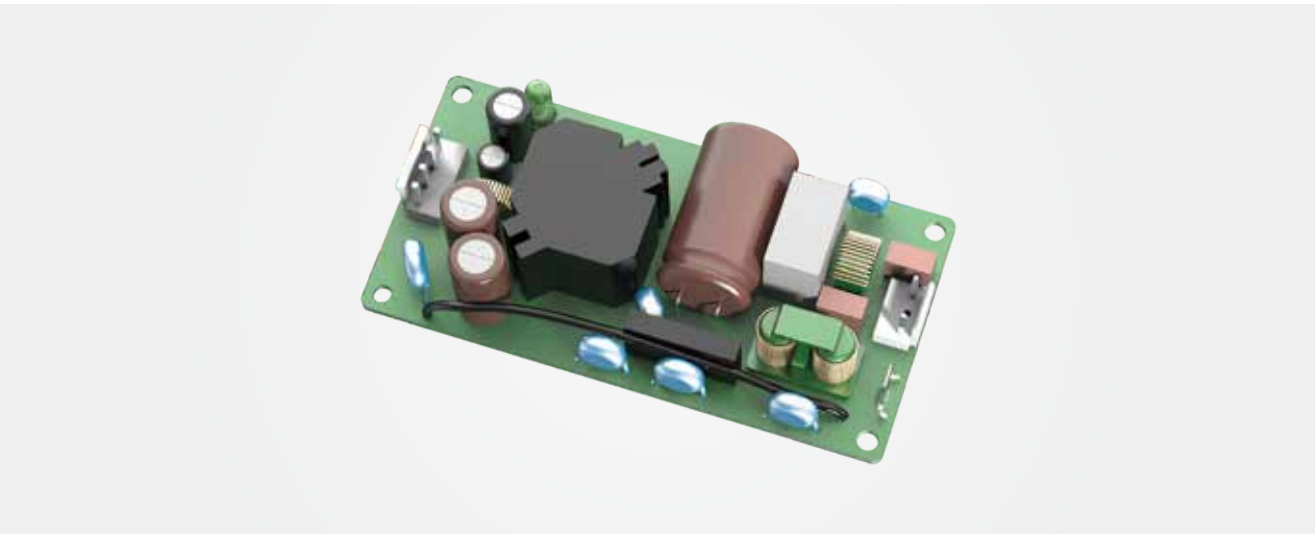
- Medical 60601-1 safety approvals
- Class I or class II construction compatible
- High efficiency up to 92%
- 3-year warranty
- Small 2" x 3" x 0.9" package
- Medical F-type approvals for class I
- EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 264VAC (universal)	Line Regulation	±1.5%
Input Frequency	47 to 63Hz	Load Regulation	±2%
Input Current	1.0ARMS @ 100VAC / 0.5ARMS @ 240VAC	Total Regulation	±3%
Inrush Current	<80A @ 230VAC, cold start	Operating Temperature	-10°C to +50°C
Earth Leakage Current	<100µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
No Load Input Power	<0.15W @ 230VAC	Operating Altitude	5000M
Over-voltage	110 to 140%, hiccup, auto-recovery	Efficiency	88%/91% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Hiccup, auto-recovery	Weight	65g ref
Over-temperature	Auto recovery with hysteresis	Dimension	2" x 3" x 0.9" / 50.8mm x 76.2mm x 22.86mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	5V	12V	15V	18V	24V
Output Current	6.00A	3.75A	3.00A	2.50A	1.875A
Output Ripple & Noise	100mV	120mV	150mV	180mV	240mV

MP65L Series

The low-cost solution for under 65 watts. This reliable, highly integrated AC to DC converter meets all Medical and Commercial compliance requirements including 4th edition EMC and comes in single output DC voltages from 8V to 24V. The series leverages the most updated gallium nitride solution and is compatible with class I and class II structure. It is suitable for BF type medical equipment.



Key Features

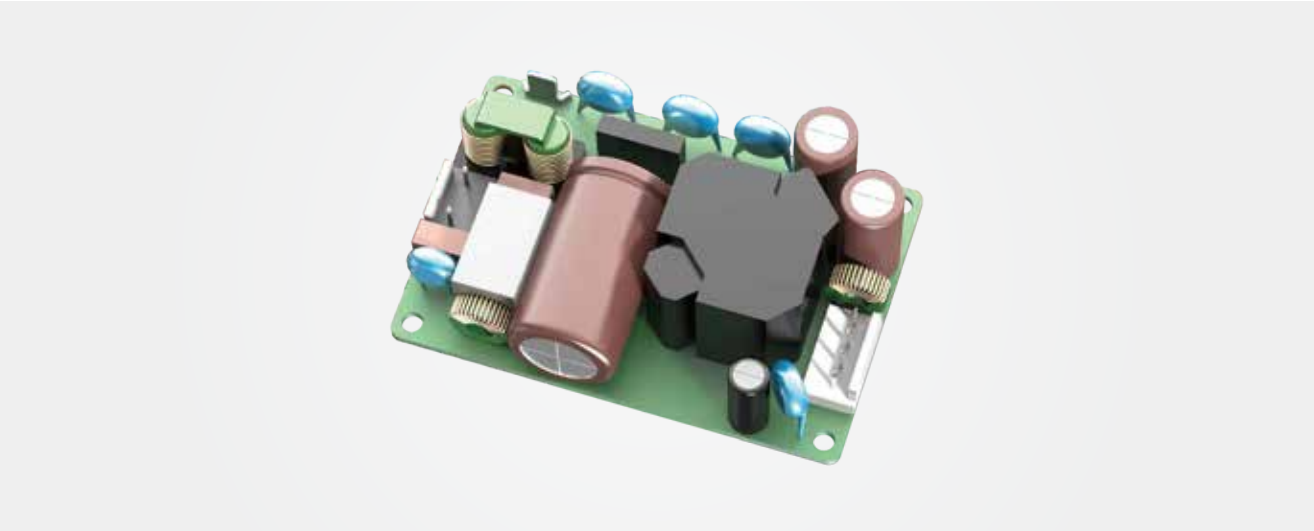
- Medical 60601-1 safety approvals
- Class I or class II construction compatible
- High efficiency up to 92%
- 3-year warranty
- Small 2" x 4" x 1" package
- Suited for type BF medical equipment
- EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1.5%
Input Frequency	47 to 63Hz	Load Regulation	±2%
Input Current	1.5ARMS @ 100VAC / 0.65ARMS @ 240VAC	Total Regulation	±3%
Inrush Current	<80A @ 230VAC, cold start (33A typ @ 230VAC)	Operating Temperature	-10 to +50°C
Earth Leakage Current	<150µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
No Load Input Power	<0.15W @ 230VAC	Operating Altitude	5000M
Over-voltage	110-140%, latching, recycle input to recovery	Efficiency	88% to 89%min @ 115 / 230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Hiccup, auto-recovery	Weight	100g ref
Over-temperature	>70°C, latching, recycle input to recover	Dimension	2" x 4" x 1" / 50.8mm x 101.6mm x 25.4mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	8V	8.2V	9V	12V	15V	18V	24V
Output Current	5.60A	5.60A	5.60A	5.41A	4.33A	3.61A	2.71A
Output Ripple & Noise	80mV	82mV	90mV	120mV	150mV	180mV	240mV

MP65S Series

MP65S series is a highly integrated AC-DC converter, using the mainstream PI solution with compact size and high power density. The series is compatible with class I and class II structure. It is suitable for BF type medical equipment.



Key Features

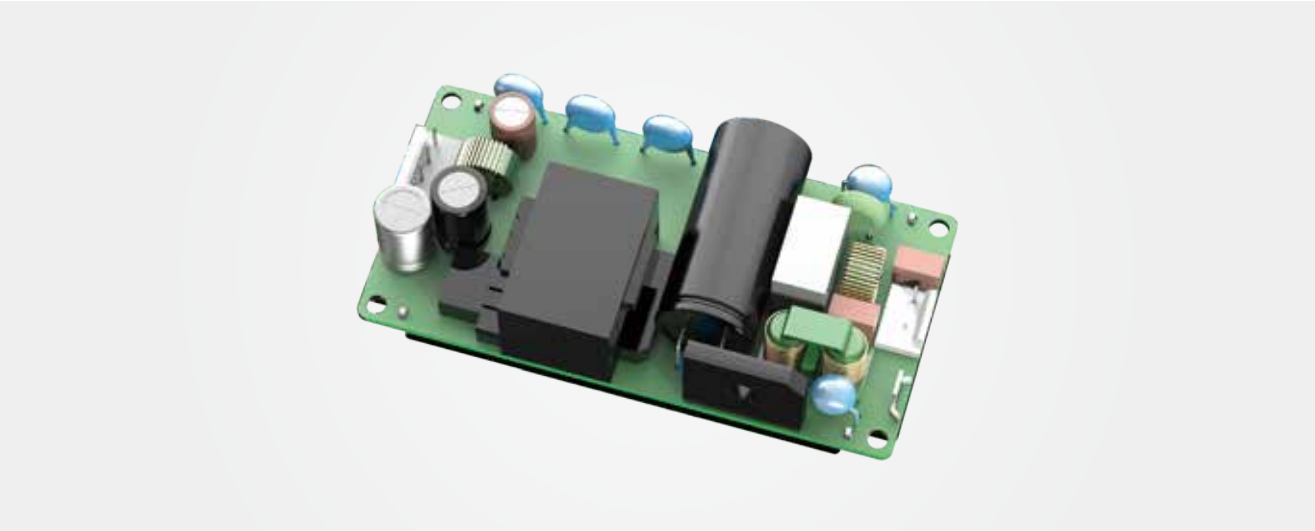
- Medical 60601-1 safety approvals
- Class I or class II construction compatible
- High efficiency up to 92%
- 3-year warranty
- Small 2" x 3" x 1" package
- Medical F-type approvals for class I
- EN55011 / FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1.5%
Input Frequency	47 to 63Hz	Load Regulation	±2%
Input Current	1.3A _{RMS} @ 100VAC / 0.65A _{RMS} @ 240VAC	Total Regulation	±3%
Inrush Current	<80A @ 230VAC, cold start	Operating Temperature	-10°C to +50°C
Earth Leakage Current	<100µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
No Load Input Power	<0.15W @ 230VAC	Operating Altitude	5000M
Over-voltage	110 to 140%, latching, recycle input to recovery	Efficiency	89%/90% typical @ 115 / 230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Hiccup, auto-recovery	Weight	95g ref
Over-temperature	>70°C, latching, recycle input to recovery	Dimension	2" x 3" x 1" / 50.8mm x 76.2mm x 25.4mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output Voltage	12V	15V	18V	24V
Output Current	5.41A	4.33A	3.61A	2.71A
Output Ripple & Noise	120mV	150mV	180mV	240mV

MP105S Series

The MP105S series is a compact size AC-DC converter that can provide 100W with airflow (80W convection). This series offers low leakage current, high quality and reliability with medical and ITE/AV dual certification. Available as class I & II dual structure, this series is used in medical devices including electrocardiograph, defibrillator, anesthesia machine etc.



Key Features

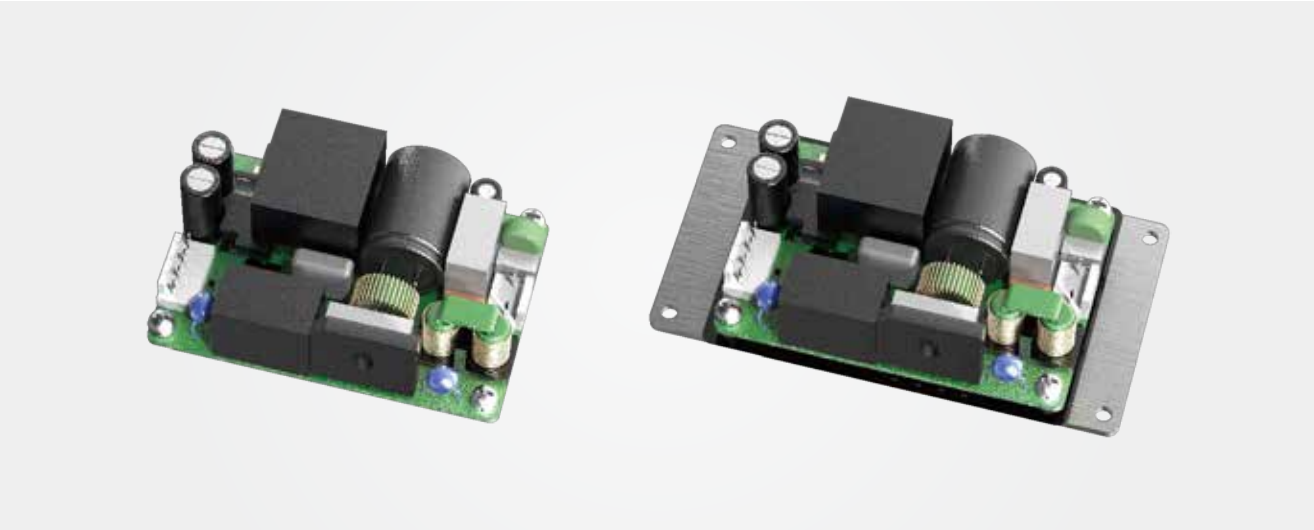
- 80W convection / 100W forced-air ratings
- Small 2" x 4" x 1" package
- High efficiency up to 92%
- EN55011 / FCC part 15 class B emissions
- Medical 60601-1 safety approvals
- Class I or class II construction compatible
- Suitable for type BF medical equipment
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frequency	47 to 63Hz	Load Regulation	±2%
Input Current	2.5A _{RMS} max	Total Regulation	±3%
Inrush Current	<120A @ 230VAC, cold start	Operating Temperature	0 to +50°C
Earth Leakage Current	<150µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
No Load Input Power	<210mW @ 230VAC	Operating Altitude	5000M
Over-voltage	115 to 145%, latching, recycle input to recover	Efficiency	88% to 91% min @ 115/230VAC, @ 80W
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Hiccup, auto-recovery	Weight	150g ref
Over-temperature	Hysteresis	Dimension	2" x 4" x 1" / 50.8mm x 101.6mm x 25.4mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP(Class I); 1500VAC – output to ground; 1xMOPP(class I)		

Output voltage	12V	15V	18V	24V
Output current	6.70A	5.30A	4.40A	3.30A
Output ripple & noise	120mV	150mV	180mV	240mV

MP130S Series

The MP130S series is an AC-DC converter that provides an output power of 130W with airflow (100W convection). A metal base plate is optional at the bottom for flexible installation choices. This series is high efficiency and integrated with low power consumption. With the excellent EMC performance, this reliable meets all medical compliance requirements including 4th edition EMC and level VI efficiency.



Key Features

- 100W convection / 130W forced-air ratings
- Small 2" x 3" x 1.03" package
- High efficiency up to 95%
- EN55011 / FCC part 15 class B emissions
- Medical 60601-1 & ITE/AV 62368-1 safety approvals
- Class I or class II construction compatible
- Suited for type BF medical equipment
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	1.8ARMS @ 115VAC	Total Regulation	±3%
Inrush Current	<120A @ 230VAC, cold start	Operating Temperature	0 to +50°C
Earth Leakage Current	<200µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
No Load Input Power	<0.21W @ 230VAC	Operating Altitude	5000M
Over-voltage	110 to 140% latch off, recycle input to recovery	Efficiency	92%/94% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, Telecordia SR-332 @ 35°C
Short Circuit	Hiccup, auto-recovery	Weight	120g ref
Over-temperature	Auto recovery with hysteresis	Dimension	2" x 3" x 1.03" or 2.08" x 4.06" x 1.18" / 50.8mm x 76.2mm x 26mm or 52.83mm x 103mm x 30mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to ground; 1xMOPP; 1500VAC – output to ground; 1xMOPP		

Output voltage	12V	15V	18V	19V	24V	28V	48V
Output current	8.33A	6.66A	5.55A	5.26A	4.16A	3.57A	2.08A
Output Ripple & Noise (Convection)	150mV	180mV	180mV	190mV	240mV	280mV	480mV

MKP150 Series

MKP150 series is an AC-DC converter using PFC and LLC integrated chip solution, efficiency can reach 94%. With a full voltage range input and class I installation structure, the model meets all medical compliance requirements including 4th edition EMC and Level VI efficiency.



Key Features

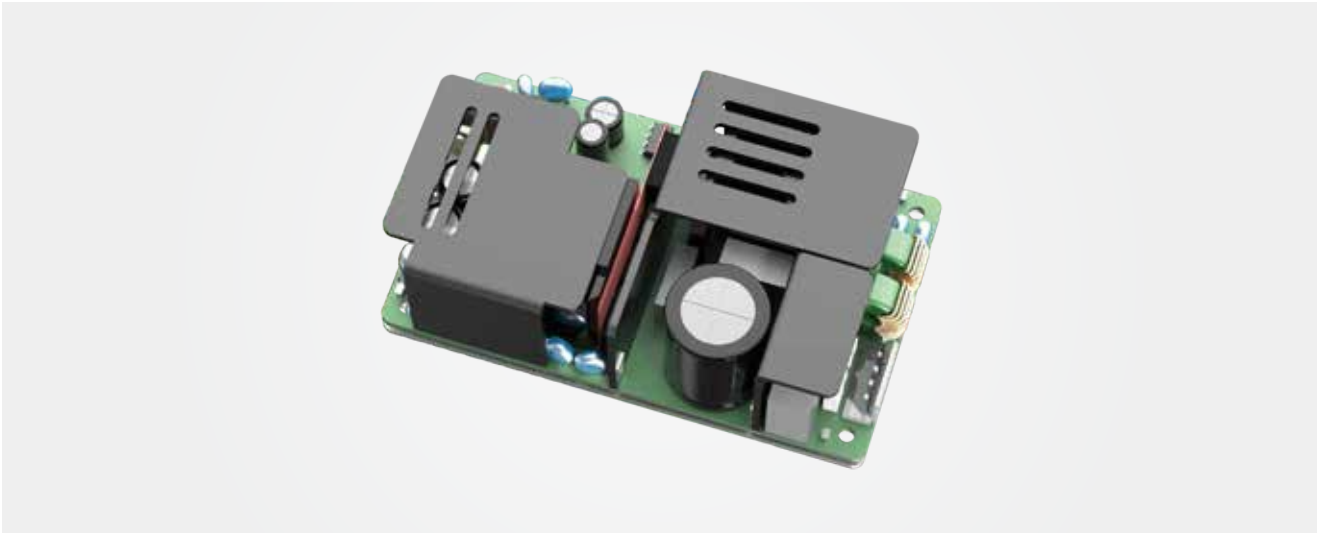
- Medical 60601-1 safety approvals
- Class I installation
- High efficiency 92% to 94%
- 3-year warranty
- Small 4.1" x 2" x 1" package
- High power density
- Universal AC input with active PFC

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±1%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	2.2ARMS @ 100VAC/1.0ARMS @ 240VAC	Total Regulation	±3%
Inrush Current	<120A @ 230VAC, cold start	Operating Temperature	0 to +40°C
Earth Leakage Current	<150µA @ 264VAC (class I)	Derating	1.67%/°C, > 40°C, up to 70°C max, for convection cooling
Touch Current	<100µA @ 264VAC	Operating Humidity	10 to 90% (non-condensing)
No Load Input Power	<0.5W @ 230VAC	Operating Altitude	4000M
Over-voltage	110 to 140% Latch off, recycle input to recovery	Efficiency	92%/94%min @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, Telecordia SR-332 @ 35°C
Short Circuit	Hiccup, auto-recovery	Weight	210g ref
Over-temperature	Latching, recycle input to recover	Dimension	4.1" x 2" x 1" / 104mm x 50.8mm x 25.4mm
Isolation	4000 VAC – input to output; 2xMOPP; 1500 VAC – input to ground; 1xMOPP; 1500 VAC – output to ground; 1xMOPP		

Output voltage	12V	15V	18V	19V	24V
Output current	12.50A	10.00A	8.33A	7.89A	6.25A
Peak current	16.67A	13.33A	11.11A	10.52A	8.33A

MKP199C Series

The elite of the 3" x 5" converters. This 200W (300W with airflow) reliable low cost medical AC-DC power supply features superior EMI/EMC performance driven by an advanced high efficiency PFC + LLC topology. Compatible with Class I and II connection modes with high efficiency and low power consumption. Designed with comprehensive protection functions including over-temperature, over-current, over-voltage, and under-voltage to satisfy medical safety standards.



Key Features

- Medical 60601-1 & IT 60950-1 safety approvals
- Small 5" x 3" x 1.5" package
- Class I or class II construction
- 3-year warranty
- High efficiency-90% typical at full load
- Universal AC input with active PFC.
- EN55011, EN55022/ FCC part 15 class B emissions

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	2.5ARMS at 115VAC / 1.2ARMS at 230VAC	Total Regulation	±5%
Inrush Current	<80A @ 240VAC, cold start	Operating Temperature	0°C to +40°C
Power Factor	>0.95	Derating	2.5%/°C > 40°C, up to 50°C max
Earth Leakage Current	<250µA @ 264VAC (class I)	Operating Humidity	5% to 95% (non-condensing)
Touch Current	<100µA @ 264VAC	Operating Altitude	3000M (max)
Over-voltage	110 to 140%, latching	Efficiency	90%min at 230VAC, full load
Over-load	110 to 150% (hiccup mode, auto-recovery)	MTBF	TBD
Short Circuit	Hiccup mode	Weight	430g
Over-temperature	Auto-recovery	Dimension	5" x 3" x 1.5" / 127mm x 76.2mm x 38mm
Isolation	4000VAC – input to output; 1500VAC – input to ground; 500VAC – output to ground		

Output Voltage	12V	19V	24V	28V	48V
Output Current	16.67A	10.52A	8.33A	7.14A	4.16A
Ripple & Noise (Max)	120mV	190mV	240mV	280mV	480mV

MP300S Series

The MP300S series is an AC-DC converter with an output of 300W (convection) and an efficiency of 96%. The model has 5V @ 2A output with remote switching signals. With the excellent EMC performance, this reliable model meets all medical compliance requirements including 4th edition EMC and IT/AV 62368-1 approvals.



Key Features

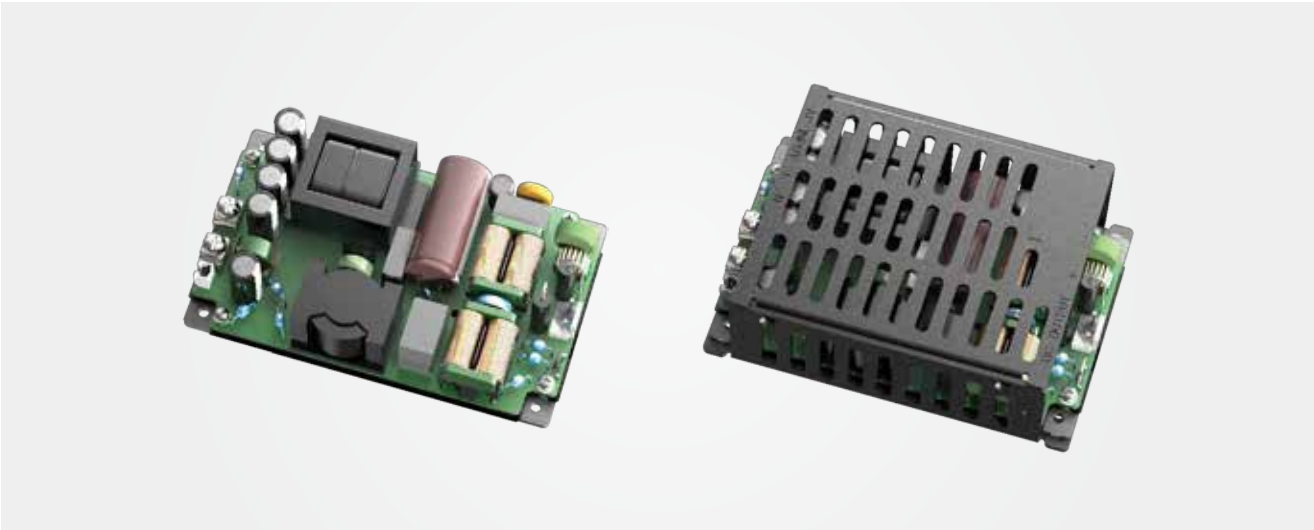
- Medical 60601-1 safety approvals
- IT/AV 62368-1 safety approvals
- High efficiency-up to 96%
- EN55011 / FCC part 15 class B emissions
- Remote on / off, power OK
- 5VSB @ 2A output
- Universal AC input with active PFC
- 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	3.5AMAX @ 100VAC	Total Regulation	±2%
Inrush Current (240VAC)	50A	Operating Temperature	-10 to +70°C
Power Factor	>0.95	Derating	1.67%/°C > 40°C, up to 70°C max
Earth Leakage Current	<150µA @ 264VAC (class I)	Operating Humidity	5% to 95% (non-condensing)
Touch Current	<100µA @ 264VAC	Operating Altitude	-60 to 5000 m
Over-voltage	110 to 140%, latching	Efficiency	91.5%/94% (115/230VAC, full load) typ
Over-load	110 to 150% (hiccup mode, auto-recovery)	MTBF	800K Hours, telecordia SR-332 @ 115VAC, full load, 35°C
Short Circuit	Hiccup mode	Weight	550g
Over-temperature	Auto-recovery	Dimension	5" x 3" x 1.5" / 127mm x 76.2mm x 38mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to earth; 1xMOPP; 1500VAC – output to earth; 1xMOPP		

Output Voltage	12V	15V	19V	24V	28V	36V	48V
Output Current	25.00A	20.00A	15.80A	12.50A	10.80A	8.33A	6.25A
Ripple & Noise (Max)	200mV	280mV	280mV	280mV	280mV	480mV	480mV

MP360S Series

The MP360S series is a compact size AC-DC converter with two size options. This 250W (360W with airflow) model meets medical and ITE/AV certified and compatible with class I & II dual construction. The model has low leakage current and excellent EMI and thermal performance, which makes it prefect for both BF and CF medical devices. The series can be used in multiple applications including ventilator, oxygen concentrator, anesthesia, ECMO, cardiac interventional surgery , etc.



Key Features

- 250W convection / 360W forced-cooled ratings
 - Medical IEC60601-1 & ITE / AV IEC62368-1 safety approvals
 - Compact size 3" x 5" x 1.2-1.5"
 - Peak power up to 560W for HP version
- Suitable for class I and class II installations
 - High efficiency up to 95%
 - Suitable for type BF (class I & class II) & CF (class I) medical equipment

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	4.5A _{MAX} @ full load condition	Total Regulation	±3%
Inrush Current	<60A @ 230VAC, cold start	Operating Temperature	-20 to +70°C
Earth Leakage Current	<250µA @ 264VAC (class I)	Derating	2.5%/°C > 50°C, up to 70°C max
Touch Current	<100µA @ 264VAC (class I & class II)	Operating Humidity	5 to 95% (non-condensing)
Patient Leakage Current	<10uA @ 264VAC, for CF version models	Operating Altitude	5000M
Over-voltage	110 to 140% latch off , recycle input to recovery	Efficiency	92%/94% typical @ 115/230VAC, full load
Over-load	Hiccup, auto-recovery	MTBF	800K Hours, Telecordia SR-332 @ 35 °C
Short Circuit	Hiccup, auto-recovery	Weight	380 to 420g ref
Over-temperature	Auto recovery with hysteresis	Dimension	3" x 5" x 1.2-1.5" / 76.2mm x 127mm x 30-38mm
Isolation	4000VAC – input to output, 2xMOPP; 3000VAC – input to ground, 1xMOPP; 1500VAC – output to ground, 1xMOPP		

Output Voltage	12V	15V	19V	24V	28V	32V	36V	48V
Output Current (Convection)	18.33A	15.00A	13.15A	10.41A	8.92A	7.81A	6.94A	5.20A
Output Current (Forced-air)	25.00A	22.00A	18.95A	15.00A	12.85A	11.25A	10.00A	7.50A

MP400 Series

Dependable low-cost single DC output U-Channel 400W fan-less AC/DC converter is ideal for products that run 24 hours, 7 days a week. This high efficiency class I constructed power supply meets class B EMI limits while design delivering high current while meeting all the latest international safety and EMC requirements. The model can be used in applications that require low ambient noise, for example, ultrasound instruments and anesthesia machines.



Key Features

- Medical 60601-1 safety approvals
 - High efficiency-92% typical at full load
 - 5VSB @ 500mA output
 - EN55011 / FCC part 15 class B cond. emissions
- Full load convection cooled operation up to 40°C
 - Remote on / off, power OK & DC OK
 - Universal AC input with active PFC
 - Medical (BF) safety approvals

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	5.5A _{RMS} at 115VAC ; 2.8A _{RMS} at 230VAC	Total Regulation	±3%
Inrush Current	<25A @ 240VAC, cold start	Operating Temperature	0 to +40°C (convection cooled)
Power Factor	>0.97	Derating	2.5%/°C > 40°C, up to 50°C max
Earth Leakage Current	<250µA @ 264VAC	Operating Humidity	5 to 95% (non-condensing)
Touch Leakage Current	<100µA @ 264VAC	Operating Altitude	4000m (max)
Over-voltage	110 to 140%, latching	Efficiency	92% typical @ 115/230VAC, full load
Over-load	110 to 150% (hiccup mode, auto-recovery)	MTBF	800K Hours, Telecordia SR-332 @ 35 °C
Short Circuit	Hiccup mode	Weight	930g ref
Over-temperature	Auto-recovery	Dimension	7" x 3.94" x 1.58" / 177.8mm x 100mm x 40.1mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to earth; 1xMOPP; 1500VAC – output to earth; 1xMOPP		

Output Voltage	12V	15V	18V	24V	28V	36V	48V
Output Current	30.00A	26.60A	22.20A	16.67A	14.20A	11.10A	8.33A
Output Ripple & Noise	120mV	150mV	180mV	240mV	280mV	360mV	480mV

MP600U Series

MP600U series is an AC-DC converter adopts a metal enclosure and a forced-air cooling mode. The maximum output is up to 600W while the efficiency can be up to 95.5%. Full range AC input with active PFC design; 5V @ 2A output with remote control switch signal. The model has excellent EMC performance with robust and accurate protection function, which allows compliance to all medical compliance requirements including 4th edition EMC.



Key Features

- Medical IEC60601-1 & ITE / AV IEC62368-1 safety approvals
 - High efficiency-up to 95.5%
 - EN55011 / FCC part 15 class B emissions
 - Internal fan forced-air cooling
- Remote on / off, power OK
 - 5VSB @ 2A output
 - Universal AC input with active PFC
 - 3-year warranty

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	7.0A _{MAX} @ 100VAC	Total Regulation	±2%
Inrush Current	< 50A @ 240VAC, 25°C cold start	Operating Temperature	-10°C to +70°C
Power Factor	> 0.95	Derating	1.67%/°C > 40°C, up to 70°C max
Earth Leakage Current	<200µA @ 264VAC (class I)	Operating Humidity	5% to 95% (non-condensing)
Touch Current	<100µA @ 264VAC	Operating Altitude	-60 to 5000 m
Over-voltage	110 to 150%, latching	Efficiency	90.0%/93% (115/230VAC, full load) typ
Over-load	110 to 150% (hiccup mode, auto-recovery)	MTBF	800K Hours, telecordia SR-332 @ 230VAC, full load, 35°C
Short Circuit	Hiccup mode	Weight	700g
Over-temperature	Auto-recovery	Dimension	6.5" x 3.35" x 1.67" / 165mm x 85mm x 42.5mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to earth; 1xMOPP; 1500VAC – output to earth; 1xMOPP		

Output Voltage	12V	15V	19V	24V	28V	36V	48V
Output Current (Convection)	50.00A	40.00A	31.60A	20.50A	21.40A	16.67A	12.50A
Output Current (Forced-air)	220mV	200mV	280mV	280mV	280mV	480mV	480mV

MP1200 Series

The MP1200 series is a 8.2" x 5" x 1.81" full-range input 1200W power supply developed specific for high-end medical equipment. This model has high efficiency and reliability, silent mode, low leakage current, and excellent EMC performance.



Key Features

- Medical 60601-1 safety approvals
 - High efficiency-up to 92%
 - Universal AC input with active PFC
- 5VSB @ 0.1A output
 - 3-year warranty
- Remote on / off, AC power good, DC power good
 - IEC/EN 60601-1-2 / FCC part 15 subpart B

Parameter			
Input Voltage	100 to 240VAC (universal)	Line Regulation	±0.5%
Input Frenquency	47 to 63Hz	Load Regulation	±2%
Input Current	14A _{MAX} @ 115VAC	Total Regulation	±2%
Inrush Current	<70A @ 240VAC, 25°C cold start	Operating Temperature	0°C to +50°C
Power Factor	>0.95	Derating	1.67%/°C > 50°C, up to 70°C max
Earth Leakage Current	<250µA @ 264VAC	Operating Humidity	5% to 95% (non-condensing)
Touch Current	<100µA @ 264VAC	Operating Altitude	5000 m
Over-voltage	110 to 150%, latching	Efficiency	90%/92% typ @ 115/230VAC, full load
Over-load	110 to 150% (hiccup mode, auto-recovery)	MTBF	TBD
Short Circuit	Hiccup mode	Weight	1.6kg
Over-temperature	Auto-recovery	Dimension	8.2" x 5" x 1.81" / 208mm x 127mm x 46mm
Isolation	4000VAC – input to output; 2xMOPP; 1500VAC – input to earth; 1xMOPP; 500VAC – output to earth; 1xMOPP		

Output Voltage	24V	48V
Output Current	50.00A	25.00A
Ripple & Noise (Max)	240mV	480mV


M4S2P14466-MM

M4S2P14466-MM is a standard battery pack specific designed for medical equipments. The product comes with multiple functions including high precision SOC and over voltage, under voltage, charge over current, discharge over current, output short circuit protection function, etc. Also it comes with sleep and shutdown modes which help reduce the power consumption and benefit long-term storage.



Key Features

- Meets regulatory requirements in many regions of the world
- High energy density and stability using branded batteries
- 4 LED power status indicators
- Standard SMBus v1.1 interface
- Comprehensive safety protection features
- TI accurate power calculation

Technical Highlights			
Ex-factory Capacity	20% to 30%	Approval and Specifications	IEC62133 / Gb28164 / UN38.3
Operating Temperatures	0 to 45°C charge; -20 to 60°C discharge		
Electrical Properties			
Nominal Voltage	14.4V	Internal Resistance	<200mΩ @ 1kHz at 25°C
Rated Capacity	6600mAh	Maximum Charging Current	3A
Energy	95.04Wh	Maximum Discharge Current	8.5A
Maximum Charging Voltage	16.8V (recommend)	Cycle life	500 cycle ≥70% capacity
Test Standard	(test criteria: CC/CV charge: 1A/16.8; CC discharge: 6.6A)		
Dimensions			
Length	150.4±0.25	Thickness	22.4±0.2
Width	77.4±0.2	Weight	470±5g
Interface			

MPHV6kW2kV

MPHV6kW2kV represents MEGMEET's high frequency power distribution units platform which is specific designed for magnetic stimulation applications. The product contains precise voltage and frequency adjustment control capability. Also it leverages full digital logic control with computer intelligent monitoring and protection scheme, which benefits data cloud storage function and control accuracy.



Key Features

- Charge power: 6KW
- Output voltage: 200V to 2000V
- EMI: class A
- Digital power
- Stimulating frequency: 10Hz to 100Hz
- Transcranial magnetic stimulation (TMS)

Input Electrical Characteristics			
Input Voltage	178VAC to 264VAC	PF	>0.95 (12VDC)
Frequency	50Hz / 60Hz	Inrush Current	115A
Input Current	80.00A (max.)	Leak Current	<1.5mA
Output Electrical Characteristics			
Main Output		DC Output	
Rated Power	6000W (charge)	Rated Power	300W
Output Voltage	200V to 2000V	Output Voltage	12V
Frequency	0 to 100Hz	Output Current	25.00A
Voltage Regulation	±1%	Line Regulation	±1%
Max Charge Current	10.00A	Load Regulation	±2%
Communication Mode	CAN	Max Charge Current	30.00A
Basic Parameter			
Main		DC	
Cooling	Forced cooling	Cooling	Forced cooling
EMC	Class A	EMC	Class B
Level of Protection	IP20	Level of Protection	IP20
Working Temperature	-5°C to 40°C	Working Temperature	-10°C to 50°C
Storage Temperature	-40°C to 70°C	Storage Temperature	-40°C to 70°C
Working Humidity	5% to 95%	Working Humidity	5% to 95%
Storage Humidity	5% to 100%	Storage Humidity	5% to 100%
Altitude	0 to 3000m, 3000m as a basis, the highest temperature specification reduces 1°C with every rise of 200m		