



Medical Power Supply

From The World's No. 1 Power Supply Company

March 2017

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Company Profile

Delta Electronics Group

World's No.1* Power Supply Company

Delta Electronics Group is the world's largest provider of switching power supplies and a major source for power management and renewable energy solutions, Established in 1971, Delta has sales offices and R&D facilities worldwide with manufacturing plants located in Taiwan, Thailand, China, Mexico, India and Europe.

As a global leader in power electronics, Delta has been adopting Green manufacturing processes, recycling initiatives, waste management programs and environmentally-friendly green building. In 2015, Delta Electronics was selected for the prestigious Dow Jones Sustainability Index (DJSI) World for the fifth consecutive year. Amongst many other national and international awards, since 2010, Delta has also received more than 49 internationally recognized technology and design awards.

1 Standard Power Supplies



Since 2008, Delta's Medical Power Supply team has been launching many new products in Delta's global distribution channels nearly on a monthly basis. These products which include DIN Rail, Panel Mount, Open Frame and LED Driver types, offer customers the same industrial leading technology and quality that Delta's ODM partners are familiar with. Delta standard power supplies are able to cater to nearly all industrial applications including cash management and automation solutions and many more. With wide range of reliable products and world class customer support, the IPS team had seen more than 90% CAGR between 2008 to 2014. Please visit our standard product homepage at www.DeltaPSU.com for more product information.

2 Modified Standard Power Supplies



Many top tier electronics companies on the Fortune® 500 list have long regarded Delta as a trusted ODM partner. These companies expect nothing less than the best technology and quality. With decades of industrial leading manufacturing and design experiences in ODM power management products, the Medical Power Supply team can also offer our customers modified standard products by leveraging from the wide range of standard products in our catalog. Modified standard products enable our customers to optimize their costs and product development time. For further query, please contact your local Delta distributor or simply send your query to info@deltapsu.com

*Based on global sales revenue from the Micro-Tech Consultants March 2016 report

Latest Products

Delta Standard Medical Power Supplies

MDS-200ADB



200W

12/24V

PAGE 18

- 2.5" × 4.5" × 1.8" Package with enclosure
- Power Good Signal
- Up to 800K Hours MTBF
- Suited for type BF medical products
- IT & Medical Safety Approvals

MDS-250ADB



250W

12/24V

PAGE 19

- 3.5" × 5.5" × 1.75" Package with enclosure
- Power Good Signal
- Remote on/off control
- Up to 500K Hours MTBF
- Suited for type BF medical products

MDS-300ADB



300W

12/18/24/48V

PAGE 20

- 3.5" × 5.5" × 1.75" Package with enclosure
- Power Good Signal
- Remote on/off control
- Up to 800K Hours MTBF
- Suited for type BF medical products

MDS-400ADB



400W

12/24V

PAGE 21

- 3.5" × 5.5" × 1.75" Package with enclosure
- Power Good Signal
- Remote on/off control
- Up to 500K Hours MTBF
- Suited for type BF medical products

MDS-350AD701



350W

12V 1U

PAGE 23

- ATX 12V standard function & form factor
- IEC60601-1 3.1 ed.(Medical) & IEC 60950-1(ITE) approvals
- Suitable for type BF patient access applications
- Built-in active PFC
- Compliant with IEC 60601-1-2 4th Ed. requirements

COMING SOON

Typical Applications

Delta Standard Medical Power Supplies



- Blood pressure meter
- CPAP/Sleep therapy
- Healthcare information system
- Medical monitors/IT
- Nursing cart
- ECG/EKG
- Infusion pump
- Life Science
- Ophthalmology equipment
- Patient monitor
- Dental equipment
- In-Vitro diagnostic equipment
- Medical ventilator
- Oxygen condenser
- Ultrasound equipment

Selection Guide

Delta Standard Medical Power Supplies

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Model Name	CC Code	Input Terminal	Output Voltage	Output Current	Output Power	Dimensions	Safety Standards
Open Frame Power Supply	MDS-040APS12 B	A	JST 2-pin	12V	3.33A	40W	2.0" × 3.0" × 0.9"	CE, UL, CCC
	MDS-065APS12 B	A	JST 2-pin		5.42A	65W	2.0" × 4.0" × 1.2"	CE, UL, CCC
	MDS-100APS12 B	A	JST 2-pin		8.33A	100W	3.0" × 5.0" × 1.2"	CE, UL, CCC
	MDS-100BPS12 B	A	JST 2-pin		8.33A	100W	2.0" × 4.0" × 1.25"	CE, UL, CCC
	MDS-200APB12*	AA	Molex 2-pin		16.67A	200W	2.0" × 4.0" × 1.4"	CE, UL, CCC, A
	MDS-250APB12*	AA	Molex 2-pin		20.84A	250W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
	MDS-300APB12*	AA	Molex 2-pin		25.00A	300W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
	MDS-400APB12*	AA	Molex 2-pin	33.33A	400W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A	
	MDS-040APS15 B	A	JST 2-pin	15V	2.67A	40W	2.0" × 3.0" × 0.9"	CE, UL, CCC
	MDS-065APS15 B	A	JST 2-pin		4.20A	65W	2.0" × 4.0" × 1.2"	CE, UL, CCC
	MDS-100APS15 B	A	JST 2-pin		6.67A	100W	3.0" × 5.0" × 1.2"	CE, UL, CCC
	MDS-100BPS15 B	A	JST 2-pin	6.70A	100W	2.0" × 4.0" × 1.25"	CE, UL, CCC	
	MDS-040APS18 B	A	JST 2-pin	18V	2.22A	40W	2.0" × 3.0" × 0.9"	CE, UL, CCC
	MDS-065APS18 B	A	JST 2-pin		3.61A	65W	2.0" × 4.0" × 1.2"	CE, UL, CCC
	MDS-100APS18 B	A	JST 2-pin		5.55A	100W	3.0" × 5.0" × 1.2"	CE, UL, CCC
	MDS-100BPS18 B	A	JST 2-pin	5.50A	100W	2.0" × 4.0" × 1.25"	CE, UL, CCC	
	MDS-300APB18*	AA	Molex 2-pin	16.66A	300W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A	
	MDS-400AUS19 B	A	DECA 3-pin	19V	21.10A	400W	3.8" × 7.8" × 1.6"	CE, UL, CCC
	MDS-040APS24 B	A	JST 2-pin		1.67A	40W	2.0" × 3.0" × 0.9"	CE, UL, CCC
	MDS-065APS24 B	A	JST 2-pin	24V	2.71A	65W	2.0" × 4.0" × 1.2"	CE, UL, CCC
	MDS-100APS24 B	A	JST 2-pin		4.17A	100W	3.0" × 5.0" × 1.2"	CE, UL, CCC
	MDS-100BPS24 B	A	JST 2-pin		4.20A	100W	2.0" × 4.0" × 1.25"	CE, UL, CCC
	MDS-200APB24*	AA	Molex 2-pin		8.33A	200W	2.0" × 4.0" × 1.4"	CE, UL, CCC, A
	MDS-250APB24*	AA	Molex 2-pin		10.41A	250W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
	MDS-300APB24*	AA	Molex 2-pin		12.50A	300W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
	MDS-400APB24*	AA	Molex 2-pin		16.66A	400W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
	MDS-400AUS24 B	A	DECA 3-pin		16.67A	400W	3.8" × 7.8" × 1.6"	CE, UL, CCC
	MDS-100AP401 B	A	Molex 2-pin		5.1V/12V/-15V/15V	8A/3A/0.8A/0.8A	100W	3.0" × 5.0" × 1.2"
MDS-300APB48*	AA	Molex 2-pin	48V		6.25A	300W	3.0" × 5.0" × 1.4"	CE, UL, CCC, A
Enclosed Power Supply	MDS-200ADB12	AA	Molex 2-pin	12V	16.67A	200W	2.5" × 4.5" × 1.8"	CE, UL, CCC, A
	MDS-250ADB12	AA	Molex 2-pin		20.84A	250W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-300ADB12	AA	Molex 2-pin		25.00A	300W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-400ADB12	AA	Molex 2-pin		33.33A	400W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-300ADB18	AA	Molex 2-pin	18V	16.66A	300W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-200ADB24	A	Molex 2-pin	24V	8.33A	200W	2.5" × 4.5" × 1.8"	CE, UL, CCC, A
	MDS-250ADB24	AA	Molex 2-pin		10.41A	250W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-300ADB24	AA	Molex 2-pin		12.50A	300W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
	MDS-400ADB24	AA	Molex 2-pin		16.67A	400W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A
MDS-300ADB48	AA	Molex 2-pin	48V		6.25A	300W	3.5" × 5.5" × 1.75"	CE, UL, CCC, A

* Product with options for enclosure or U-channel
























































Medical Power Supply Model Numbering

MDS	-	XXX						
Delta Medical Power Supply 040APS series 065APS series 100APS series 100BPS series 400AUS series		Max power wattage in the product series. May be lower at some voltages 060: 60W 100: 100W	Family Code A-Z	Product Type P: Open Frame U: U Frame	Input Type Code S: Single Output 4: 4 Outputs ¹⁾	Output Voltage 12: 12V 24: 24V	Input Configuration B: Class I 3-pin connector A: Class II 2-pin	CC Code Control code for DC connector, label, etc. A: DC connector ²⁾

1) For MDS-100AP401B, 2) Refer to technical datasheet or product catalog

MDS	-	XXX						
Delta Medical Power Supply MDS-200A series MDS-250A series MDS-300A series MDS-400A series		Max power wattage in the product series. May be lower at some voltages 060: 60W 100: 100W	Family Code A-Z	Product Type P: Open Frame B: U-frame D: Enclosure	Input Type Class II 2-pin connector: A, C, E, G... Class I 3-pin connector: B, D, F, H...	Output Voltage 12: 12V 24: 24V	Control Code For DC connector, label, etc. A: DC connector type ¹⁾	

1) Refer to technical datasheet or product catalog

Product Type	Model Name	CC Code	AC Inlet	Output Voltage	Output Current	Output Power	Dimensions	Safety Standards
ATX Power Supply	MDS-350AD701	AA	C14	+3.3V, +5V, +5Vsb, +12V1, +12V2, -12V, -5V	8A, 9A, 1.25A, 8A, 8A, 0.25A, 0.1A	350W	3.9" × 7.6" × 1.6"	CE  
Adapter Power Supply	MDS-005AAS05 A	R	Wall mount-China type	5V	1.00A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-005AAS05 B	R	Wall mount-Japan, USA type		1.00A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-005AAS05 C	R	Wall mount-EU type		1.00A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-030AAC05*		Duck Head	3.00A	15W	2.1" × 3.5" × 1.1"	CE  	
	MDS-005AAS06 A	R	Wall mount-China type	6V	0.83A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-005AAS06 B	R	Wall mount-Japan, USA type		0.83A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-005AAS06 C	R	Wall mount-EU type		0.83A	5W	1.6" × 2.2" × 1.1"	CE  
	MDS-030AAC07*		Duck Head	7V	3.00A	21W	2.1" × 3.5" × 1.1"	CE  
	MDS-030AAC12*		Duck Head	12V	2.00A	24W	2.1" × 3.5" × 1.1"	CE  
	MDS-060AAS12 B	A	C14		5.00A	60W	2.4" × 5.3" × 1.3"	CE  
	MDS-060BAS12 A	B	C8		5.00A	60W	2.4" × 5.3" × 1.3"	CE  
	MDS-080AAS12 A		C8	6.66A	80W	3.0" × 5.9" × 1.6"	CE  	
	MDS-150AAS12 B	A	C14	10.00A	120W	3.4" × 6.7" × 1.6"	CE  	
	MDS-030AAC15*		Duck Head	15V	2.00A	30W	2.1" × 3.5" × 1.1"	CE  
	MDS-060AAS15 B	A	C14		4.00A	60W	2.4" × 5.3" × 1.3"	CE  
	MDS-090AAS15 B	A	C14		6.00A	90W	2.6" × 5.9" × 1.4"	CE  
	MDS-060AAS19 B	A	C14	19V	3.20A	60W	2.4" × 5.3" × 1.3"	CE  
	MDS-060BAS19 A	A	C8		3.15A	60W	2.4" × 5.3" × 1.3"	CE  
	MDS-090AAS19 B	A	C14		4.74A	90W	2.6" × 5.9" × 1.4"	CE  
	MDS-150AAS19 B	A	C14	7.89A	150W	3.4" × 6.7" × 1.6"	CE  	
MDS-150CAB19	AA	C6	7.90A	150W	2.6" × 5.9" × 1.3"	CE  		
MDS-030AAC24*		Duck Head	24V	1.25A	30W	2.1" × 3.5" × 1.1"	CE  	
MDS-060AAS24 B	A	C14		2.50A	60W	2.4" × 5.3" × 1.3"	CE  	
MDS-060BAS24 A	A	C8		2.50A	60W	2.4" × 5.3" × 1.3"	CE  	
MDS-090AAS24 B	A	C14		3.75A	90W	2.6" × 5.9" × 1.4"	CE  	
MDS-090BAS24 A	B	C8		3.75A	90W	3.0" × 5.9" × 1.6"	CE  	
MDS-150AAS24 B	A	C14		6.25A	150W	3.4" × 6.7" × 1.6"	CE  	

Medical Power Supply Model Numbering

MDS	-	XXX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Delta Medical Power Supply MDS-350AD701		Max power wattage in the product series. May be lower at some voltages 060 → 60W 150 → 150W 1K2 → 1,200W	Family Code A-Z	Product Type D: Enclosure	Output Voltage 701: +3.3V, +5V, +5Vsb, +12V1, +12V2, -12V, -5V	Revision Code	Revision Code	
MDS	-	XXX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Delta Medical Power Supply 005AAS series 060AAS series 060BAS series 080AAS series 090AAS series 090BAS series 150AAS series		Max power wattage in the product series. May be lower at some voltages 060: 60W 100: 100W	Family Code A-Z	Product Type A: Adapter	# of Output S: Single Output	Output Voltage 12: 12V 24: 24V	Input Configuration A: C8 B: C14 C: NA A: CN B: US C: EU for 005AAS	CC Code For DC plug, cable length, label, etc.
MDS	-	XXX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Delta Medical Power Supply MDS-150CAB19A		Max power wattage in the product series. May be lower at some voltages 150: 150W	Family Code A-Z	Product Type A: Adapter	Input Type Class II C8/C18: A, C, E, G... Class I C6/C14: B, D, F, H...	Output Voltage 12: 12V 24: 24V	Control Code AA-ZX Power cord length, plug, label, etc.	
MDS	-	030		AAC	<input type="checkbox"/>		AA	
Delta Medical Power Supply MDS-030 Series		Max wattage in the product series (may be lower at some voltages)	Family Code	Output Voltage (Single Output) 05 for 5V 12 for 12V 07 for 7V 15 for 15V 08 for 7.5V 24 for 24V			Revision Code ^{1), 2)}	

1) 1st digit: DC plug type and output cable length. A for 2.1 × 5.5 × 10 mm DC plug, and 1200 mm cable length.

2) 2nd digit: Country duck-head type (A_China, B_United States, C_European, D_United Kingdom, E_Australia, G_Korea, H_India, J_Argentina, K_Brazil, M_South Africa)

Standard Products

Open Frame Power Supply



The MDS Open Frame series provides high performance and reliable solutions for internal power supplies in medical equipment or systems.

Typical Applications



Notes:



All Delta Medical Power products conform to the European directive 2011/65/EU. RoHS is the abbreviation for "Restriction of the use of certain hazardous substances".



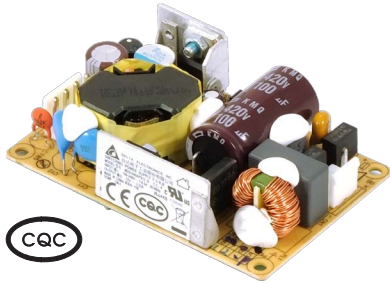
Delta has been certified for meeting the requirements of ISO 13485: 2003 and EN ISO 13485: 2012 for the design and production of switching power supplies and adaptors for medical devices.



In addition to the UL Total Certification Program (TCP) approved client laboratory for IEC60950 and IEC60065, Delta has also participated in the UL Client Test Data Program (CTDP) for IEC 60601.

MDS 040APS Open Frame Power Supply

12/15/18/24V 40 WATTS



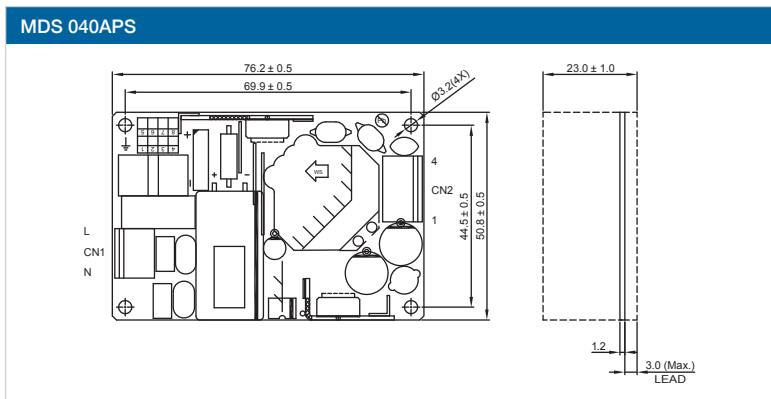
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Risk management report available
- 2" x 3" x 0.9" package
- 3 million hours MTBF
- 2 x MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	040APS12	040APS15	040APS18	040APS24
Output Voltage	12V	15V	18V	24V
Output Current (Max)	3.33A	2.67A	2.22A	1.67A
Output Power	40W	40W	40W	40W
Efficiency	86%	87%	87%	87%
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±1%			
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W x L x H)	50.80 x 76.20 x 23.00 mm (2.0 x 3.0 x 0.9 in)			
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B			
Connector Type	Input: JST 2P B2P3-VH (LF) (SN) Output: JST 4P B4P-VH (LF) (SN)			
Unit Weight	80 grams (2.88 ounces)			
MTBF	3 million hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	10-95% RH (Non-condensing)			
Operating Altitude	3,000 meters			
MEDICAL RATING				
Float Rating	B			
MOPP	2 x MOPP			

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

MDS 065APS Open Frame Power Supply

12/15/18/24V 65 WATTS



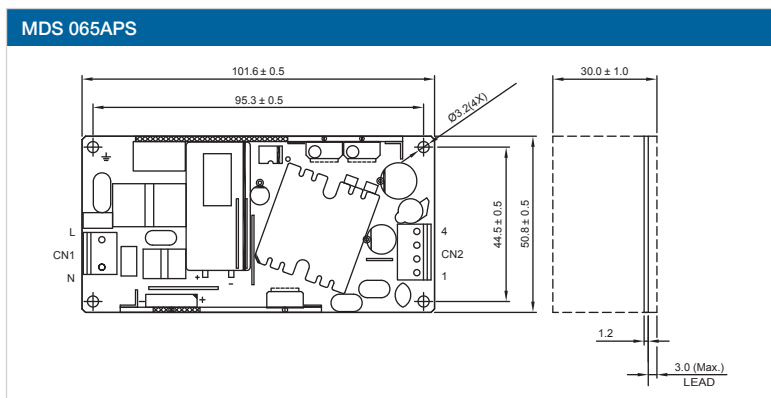
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Risk management report available
- 2.5 million hours MTBF
- 2" x 4" x 1.2" package
- 2 x MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

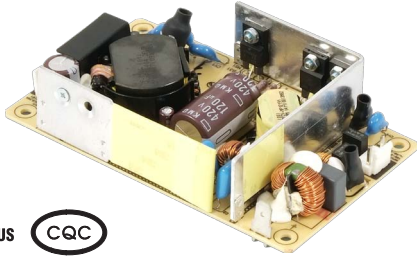
OUTPUT	065APS12	065APS15	065APS18	065APS24
Output Voltage	12V	15V	18V	24V
Output Current (Max)	5.42A	4.20A	3.61A	2.71A
Output Power	65W	63W	65W	65W
Efficiency	87%	88%	88%	88%
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±1%			
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W x L x H)	50.80 x 101.60 x 30.00 mm (2.0 x 4.0 x 1.2 in)			
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B			
Connector Type	Input: JST 2P B2P3-VH (LF) (SN) Output: JST 4P B4P-VH (LF) (SN)			
Unit Weight	130 grams (4.6 ounces)			
MTBF	2.5 million hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	10-95% RH (Non-condensing)			
Operating Altitude	3,000 meters			
MEDICAL RATING				
Float Rating	B			
MOPP	2 x MOPP			

unit: mm



MDS 100APS Open Frame Power Supply

12/15/18/24V 100 WATTS



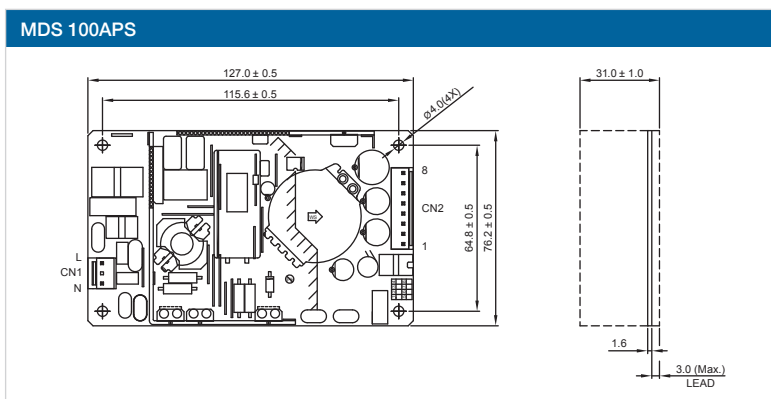
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- 1.528 (for 12V), 2.313 (for 15V), 2.442 (for 18V), 3.174 (for 24V) million hours MTBF
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Risk management report available
- 3" x 5" x 1.2" package
- 2 x MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	100APS12	100APS15	100APS18	100APS24
Output Voltage	12V	15V	18V	24V
Output Current (Max)	8.33A	6.67A	5.55A	4.17A
Output Power	100W	100W	100W	100W
Efficiency	89%	91%	91%	91%
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±1%			
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W x L x H)	76.20 x 127.00 x 31.00 mm (3.0 x 5.0 x 1.2 in)			
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B			
Connector Type	Input: JST 2P B2P3-VH (LF) (SN) Earth terminal: Kang Yang PC250 Output: JST 8P B8P-VH (LF) (SN)			
Unit Weight	120 grams (16.2 ounces)			
MTBF	3 million hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	10-95% RH (Non-condensing)			
Operating Altitude	3,000 meters			
MEDICAL RATING				
Float Rating	B			
MOPP	2 x MOPP			

unit: mm



MDS 100BPS Open Frame Power Supply

12/15/18/24V 100 WATTS



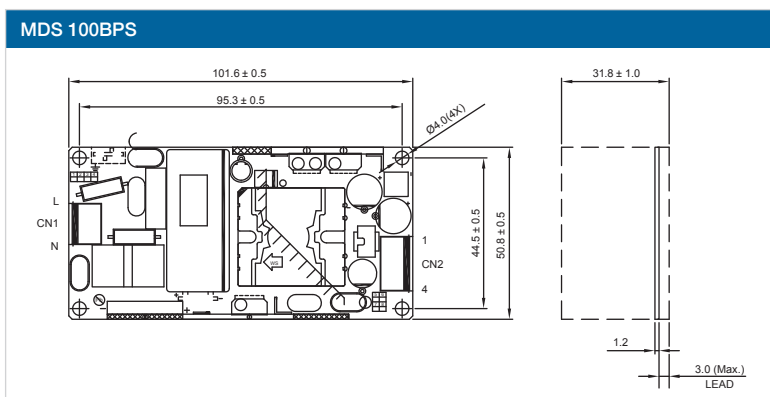
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low Leakage Current (<0.1mA Normal & 0.3mA single fault)
- 80W with convection cooling; 100W with forced air cooling
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety management report available
- 2" x 4" x 1.25" package
- 1 million hours MTBF
- 2 x MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	100BPS12	100BPS15	100BPS18	100BPS24
Output Voltage	12V	15V	18V	24V
Output Current (Max)	8.33A	6.70A	5.50A	4.20A
Output Power (Convection)	80W	80W	80W	80W
Output Power (Forced Air)	100W	100W	100W	100W
Efficiency	87%	88%	88%	89%
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±1%			
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W x L x H)	50.80 x 101.60 x 31.80 mm (2.0 x 4.0 x 1.25 in)			
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B			
Connector Type	Input: JST 2P B2P3-VH (LF) (SN) Earth terminal: Kang Yang PCH250 Output: JST 4P B4P-VH (LF) (SN)			
Unit Weight	150 grams (5.3 Ounces)			
MTBF	1 million hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	10-95% RH (Non-condensing)			
Operating Altitude	5,000 meters			
MEDICAL RATING				
Float Rating	B			
MOPP	2 x MOPP			

unit: mm



MDS 100AP401 Open Frame Power Supply

5.1/12/-15/15V 100 WATTS



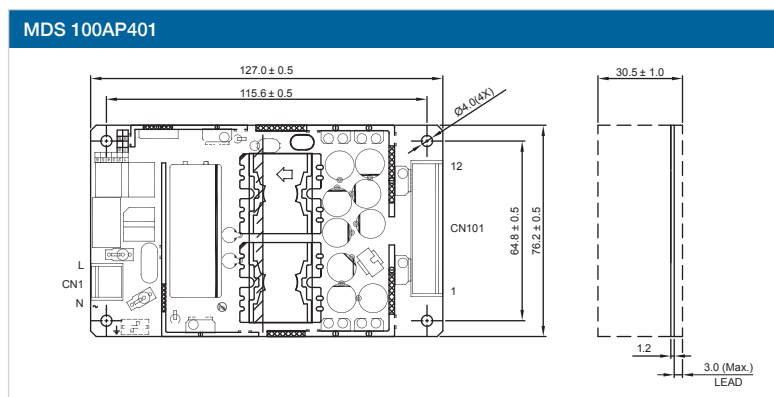
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Risk management report available
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT		100AP401			
Output Voltage	5.1V	12V	-15V	15V	
Output Current (Max)	8A	3A	0.8A	0.8A	
Output Power (Convection)					65W
Output Power (Forced Air)					100W
Efficiency					75%
INPUT					
Input Voltage Range					90-264Vac
Ripple & Noise					<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)
Load Regulation	±2%	±1%	±3%	±3%	
Leakage Current					<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz
Input Frequency					47-63Hz
MECHANICAL					
Dimension (W × L × H)					76.20 × 127.00 × 30.50 mm (3.0 × 5.0 × 1.2 in)
EMC & Emissions					EN55011 & EN55022 & FCC conducted & radiated class B
Connector Type					Input: Molex 2P 09-65-2029 Earth terminal: Kang Yang PCH250 Output: Molex 12P 09-65-2128
Unit Weight					0.25 kg
MTBF					1 million hours
ENVIRONMENT					
Operating Temperature					-10°C to +70°C
Storage Temperature					-40°C to +85°C
Operating Humidity					5-95% RH (Non-condensing)
Operating Altitude					5,000 meters
MEDICAL RATING					
Float Rating					B
MOPP					2 × MOPP

unit: mm



MDS 200A Open Frame Power Supply

12/24V 200 WATTS



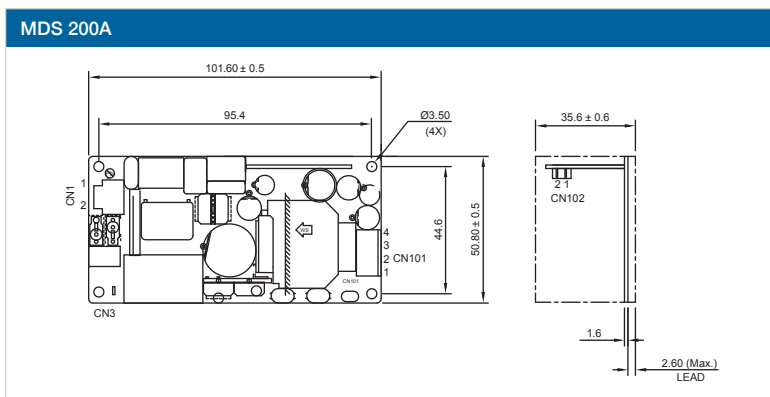
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Class B EMI (all models); 4th Edition Immunity Compliance
- Up to 140W with convection cooling; 200W with forced air cooling
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Enclosed cover design option available
- Suitable for type BF medical product
- Up to 800K hours MTBF
- 2" x 4" x 1.4" package
- Power Good signal

GENERAL SPECIFICATIONS

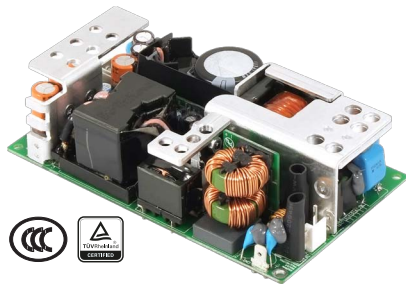
OUTPUT	200APB12	200APB24
Output Voltage	12V	24V
Output Current (Max)	16.67A	8.33A
Output Power (Convection)	130W	140W
Output Power (Forced Air)	200W	200W
Efficiency	91% @115V, 93% @230V	94%
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)	
Load Regulation	±1%	
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W x L x H)	50.80 x 101.60 x 35.60 mm (2.0 x 4.0 x 1.4 in)	
EMC & Emissions	Class I model: EN55011, EN55022, FCC: class B	
Connector Type	Input: Molex 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: JST B4P-VH(LF)(SN)	
Unit Weight	200 grams (0.441 pounds)	
MTBF	800K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-Condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 x MOPP	

unit: mm



MDS 250A Open Frame Power Supply

12/24V 250 WATTS



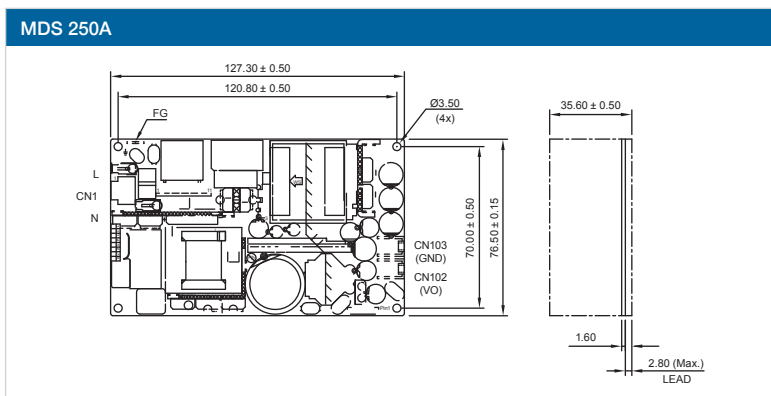
HIGHLIGHTS & FEATURES

- Power Good signal, Remote Sense, Remote Inhibit
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Up to 150W with convection cooling; 250W with forced air cooling
- Class B EMI; 4th Edition Immunity Compliance
- Safety rated for medical and IT applications
- Enclosed cover design option available
- Suitable for type BF medical product
- Up to 500K hours MTBF
- 3" x 5" x 1.4" package

GENERAL SPECIFICATIONS

OUTPUT	250APB12	250APB24
Output Voltage	12V	24V
Output Current (Max)	20.84A	10.41A
Output Power (Convection)	150W	150W
Output Power (Forced Air)	250W	250W
Efficiency	91%	
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)	
Load Regulation	±1%	
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/60Hz	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W x L x H)	76.50 x 127.30 x 36.10 mm (3.0 x 5.0 x 1.4 in)	
EMC & Emissions	Class I model: EN55011, EN55022, FCC: class B Class II model: EN55011, EN55022, FCC: class B for conducted, class A for radiated	
Connector Type	Input: Molex 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: Kang Yang PCB-12 Signal Connector: Molex 104141-1010	
Unit Weight	405 grams	
MTBF	500K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 x MOPP	

unit: mm



MDS 300A Open Frame Power Supply

12/18/24/48V 300 WATTS



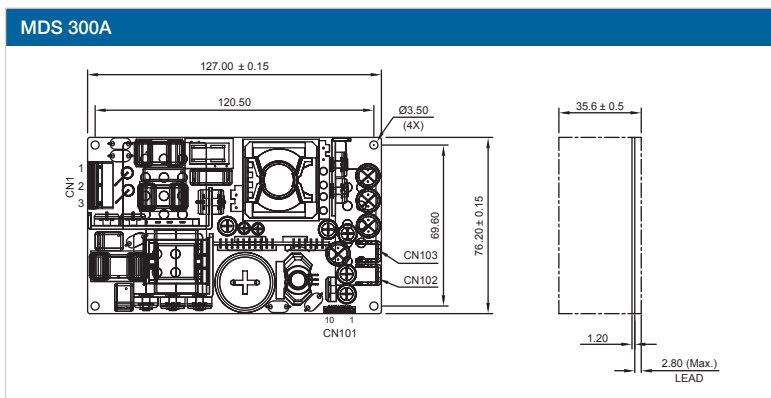
HIGHLIGHTS & FEATURES

- Power Good signal, Remote Sense, Remote Inhibit
- Class B EMI (all models); 4th Edition Immunity Compliance (12 & 24V models only)
- Up to 240W with convection cooling; 300W with forced air cooling
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety rated for medical and IT applications
- Suitable for type BF medical products
- Enclosed cover kit design available
- Up to 800K hours MTBF
- 3" x 5" x 1.4" package

GENERAL SPECIFICATIONS

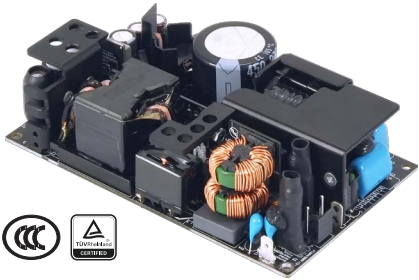
OUTPUT	300APB12	300APB18	300APB24	300APB48
Output Voltage	12V	18V	24V	48V
Output Current (Max)	25.00A	16.66A	12.50A	6.25A
Output Power (Convection)	220W	220W	240W	240W
Output Power (Forced Air)	300W	300W	300W	300W
Efficiency	94%			
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±1%			
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W x L x H)	76.20 x 127.00 x 35.60 mm (3.0 x 5.0 x 1.4 in)			
EMC & Emissions	Class I model: EN55011, EN55022, FCC: class B			
Connector Type	Input: Molex 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: Kang Yang PCB-12 Signal connector: Molex 104141-1010			
Unit Weight	405 grams			
MTBF	800K hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	5-95% RH (Non-condensing)			
Operating Altitude	5,000 meters			
MEDICAL RATING				
Float Rating	BF			
MOPP	2 x MOPP			

unit: mm



MDS 400A Open Frame Power Supply

12/24V 400 WATTS



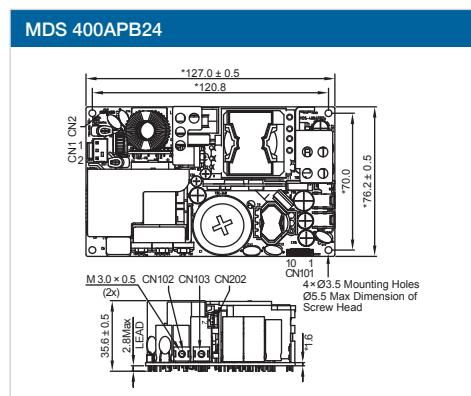
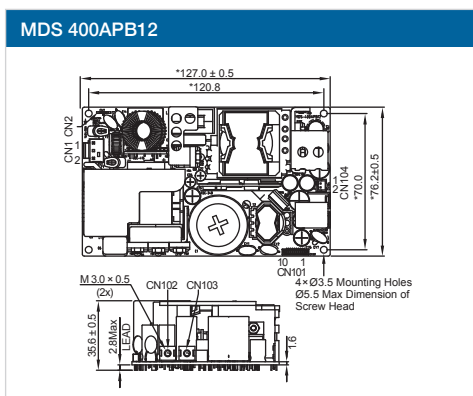
HIGHLIGHTS & FEATURES

- Power Good signal, Remote Sense, Remote Inhibit
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Up to 200W with convection cooling; 400W with forced air cooling
- Class B EMI (all models); 4th Edition Immunity
- Safety rated for medical and IT applications
- Enclosed cover design option available
- Suitable for type BF medical product
- 5V standby and 12V fan outputs
- Up to 800K hours MTBF
- 3" x 5" x 1.4" package

GENERAL SPECIFICATIONS

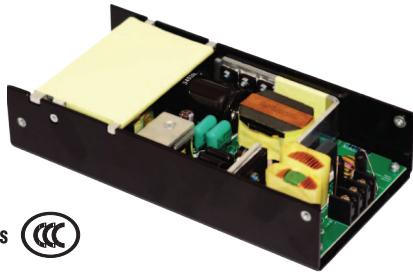
OUTPUT	400APB12	400APB24
Output Voltage	12V	24V
Output Current (Max)	33.33A	16.66A
Output Power (Convection)	200W	200W
Output Power (Forced Air)	400W	400W
Efficiency	89.5% @115V, 91.5% @230V	92% @115V, 93% @230V
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)	
Load Regulation	±1%	
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/60Hz	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W x L x H)	76.20 x 127.00 x 35.60 mm (3.0 x 5.0 x 1.4 in)	
EMC & Emissions	Class I model: EN55011, EN55022, FCC: class B	
Connector Type	Input: Molex 171813-9998 or Equivalent	
	Earth terminal: PINGOOD JP-13T	
	Output: Kang Yang PCB-12	
	Signal Connector: Molex 104141-1010	
	Fan output connector: JST B2B-PH-K-S(LF)(SN)	Fan output connector: JST S2B-PH-SM4-TB(LF)(SN)
Unit Weight	405 grams	
MTBF	800K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 x MOPP	

unit: mm



MDS 400AUS Open Frame Power Supply

19/24V 400 WATTS



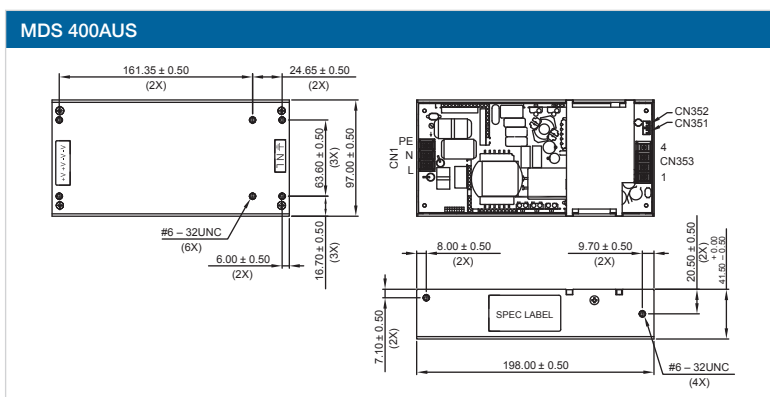
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Up to 300W with convection cooling, 400W with forced air
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety approvals for medical and IT applications
- Risk management report available
- 2 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty
- Remote sense

GENERAL SPECIFICATIONS

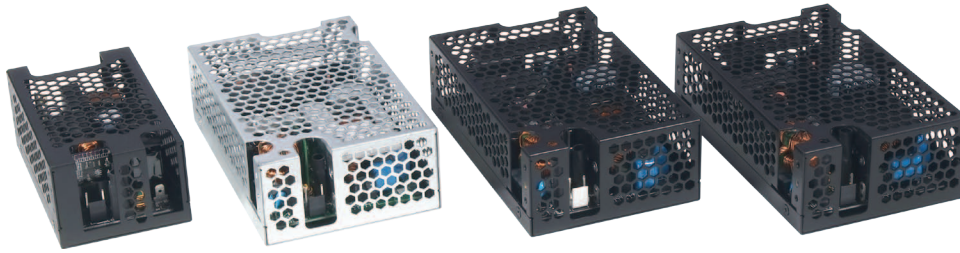
OUTPUT	400AUS19	400AUS24
Output Voltage	19V	24V
Output Current (Max)	21.10A	16.67A
Output Power (Convection)	300W	300W
Output Power (Forced Air)	400W	400W
Efficiency	91%	92%
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)	
Load Regulation	±2%	
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W × L × H)	97.00 × 198.00 × 41.50 mm (3.8 × 7.8 × 1.6 in)	
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B	
Connector Type	Input: DECA 3P T33-BM1103A301 Output: DECA 4P T33-BM1104A301 Output: JWT 2P A2508WV0-2P	
Unit Weight	910 grams (32.1 ounces)	
MTBF	2 million hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	10-95% RH (Non-condensing)	
Operating Altitude	3,000 meters	
MEDICAL RATING		
Float Rating	B	
MOPP	2 × MOPP	

unit: mm



Standard Products

Enclosed Power Supply



Most of the MDS series of enclosed power supplies are certified with both medical and ITE safety approvals. Encased in strong metal casing, the series of versatile products can be used in a wide variety of equipment for medical and ITE applications.

Typical Applications



Notes:



All Delta Medical Power products conform to the European directive 2011/65/EU. RoHS is the abbreviation for "Restriction of the use of certain hazardous substances".



Delta has been certified for meeting the requirements of ISO 13485: 2003 and EN ISO 13485: 2012 for the design and production of switching power supplies and adaptors for medical devices.



In addition to the UL Total Certification Program (TCP) approved client laboratory for IEC60950 and IEC60065, Delta has also participated in the UL Client Test Data Program (CTDP) for IEC 60601.

MDS 200ADB Enclosed Power Supply

12/24V 200 WATTS



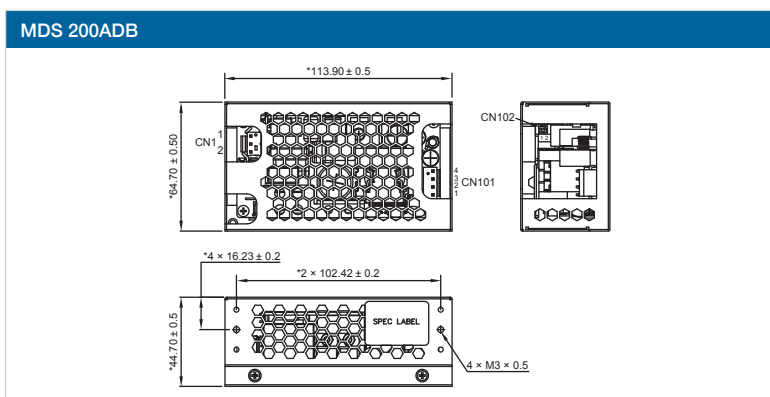
HIGHLIGHTS & FEATURES

- Up to 120W with convection cooling; 200W with forced air cooling
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- IEC60601-1-2 4th edition EMC compliance
- 2.5" × 4.5" × 1.8" Package with enclosure
- Suitable for type BF medical product
- IT & Medical Safety Approvals
- Up to 800K Hours MTBF
- Power Good signal

GENERAL SPECIFICATIONS

OUTPUT	200ADB12	200ADB24
Output Voltage	12V	24V
Output Current (Max)	16.67A with 8.5 CFM forced air	8.33A with 5.5 CFM forced air
Output Power (Convection)	110W	120W
Output Power (Forced Air)	200W	200W
Efficiency	91% @ 115V/60Hz, 93% @ 230V/50Hz	92% @ 115V/60Hz, 93% @ 230V/50Hz
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	1%pk-pk/rated @ Full load	
Load Regulation	±1%	
Leakage Current	0.1mA @ NC, 0.3mA @ SFC	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W × L × H)	64.70 × 113.90 × 44.70 mm (2.5 × 4.5 × 1.8 in)	
EMC & Emissions	Class I model: EN55011/EN55022, FCC Title 47: Class B	
Connector Type	Input: Molex 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: JST B4P-VH(LF)(SN)	
Unit Weight	345 grams (0.762 lbs)	
MTBF	800K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 × MOPP	

unit: mm



MDS 250ADB Enclosed Power Supply

12/24V 250 WATTS



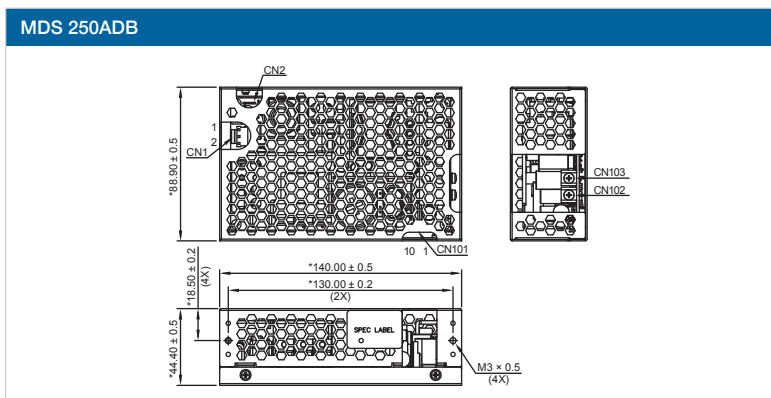
HIGHLIGHTS & FEATURES

- IEC60601-1-2 4th edition EMC compliance
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Up to 135W with convection cooling; 250W with forced air cooling
- 3.5" × 5.5" × 1.75" Package with enclosure
- Suitable for type BF medical products
- IT & Medical Safety Approvals
- Up to 500K Hours MTBF
- Remote on/off control
- Power Good signal

GENERAL SPECIFICATIONS

OUTPUT	250ADB12	250ADB24
Output Voltage	12V	24V
Output Current (Max)	20.84A with 10 CFM forced air	10.41A with 10 CFM forced air
Output Power (Convection)	135W	135W
Output Power (Forced Air)	250W	250W
Efficiency	89.45% @ 115V, 90.50% @ 230V	91.85% @ 115V, 92.98% @ 230V
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	1% pk-pk Vrated @ 250W load	
Load Regulation	±1%	
Leakage Current	0.1mA @ NC, 0.3mA @ SFC, 0.1mA @ NC, 0.5mA @ SFC	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W × L × H)	88.90 × 140.00 × 44.40 mm (3.5 × 5.5 × 1.75 in)	
EMC & Emissions	EN55011, EN55022, FCC title 47: class B	
Connector Type	Input: Molex: 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: Kang Yang PCB-12 Signal connector: Molex 104141-1010	
Unit Weight	610 grams (1.35 lbs)	
MTBF	500K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 × MOPP	

unit: mm



MDS 300ADB Enclosed Power Supply

12/18/24/48V 300 WATTS



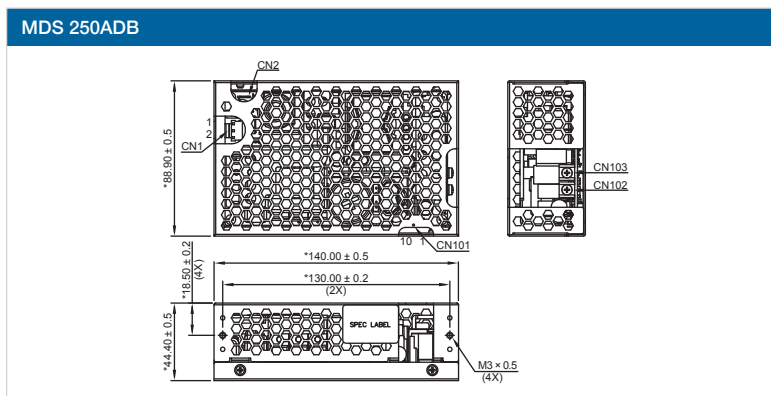
HIGHLIGHTS & FEATURES

- Up to 210W with convection cooling; 300W with forced air cooling
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- IEC60601-1-2 4th edition EMC compliance
- 3.5" × 5.5" × 1.75" Package with enclosure
- Suitable for type BF medical products
- IT & Medical Safety Approvals
- Up to 800K Hours MTBF
- Remote on/off control
- Power Good signal

GENERAL SPECIFICATIONS

OUTPUT	300ADB12	300ADB18	300ADB24	300ADB48
Output Voltage	12V	18V	24V	48V
Output Current (Max)	25.00A with 10 CFM forced air	16.66A with 10 CFM forced air	12.50A with 10 CFM forced air	6.25A with 10 CFM forced air
Output Power (Convection)	190W	190W	210W	210W
Output Power (Forced Air)	300W	300W	300W	300W
Efficiency	91.3% @ 115V, 92.6% @230V	92.5% @ 115V, 93.5% @230V	93% @ 115V, 94% @230V	92.5% @ 115V, 93.5% @230V
INPUT				
Input Voltage Range	90-264Vac			
Ripple & Noise	1% pk-pk Vrated @ 300W load			
Load Regulation	±1%			
Leakage Current	<0.1mA @ NC, 0.3mA @ SFC, <0.1mA @ NC, 0.5mA @ SFC			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W × L × H)	88.90 × 140.00 × 45.00 mm (3.5 × 5.5 × 1.75 in)			
EMC & Emissions	EN55011, EN55022, FCC Title 47: class B			
Connector Type	Input: Molex: 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: Kang Yang PCB-12 Signal connector: Molex 104141-1010			
Unit Weight	610 grams (1.35 lbs)			
MTBF	800K hours			
ENVIRONMENT				
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	5-95% RH (Non-condensing)			
Operating Altitude	5,000 meters			
MEDICAL RATING				
Float Rating	BF			
MOPP	2 × MOPP			

unit: mm



MDS 400ADB Enclosed Power Supply

12/24V 400 WATTS



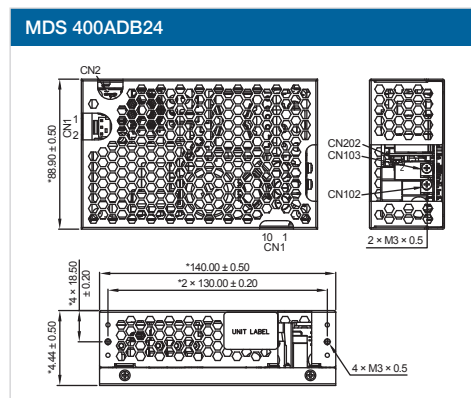
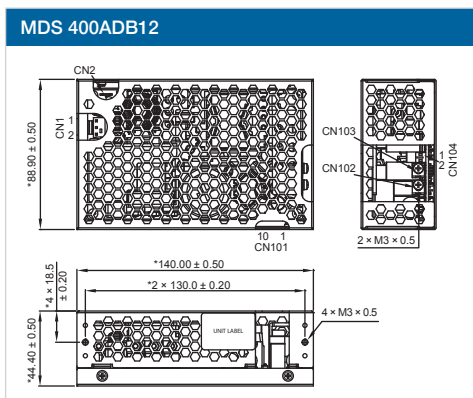
HIGHLIGHTS & FEATURES

- Compliant with IEC 60601-1-2 4th Ed. Requirements
- IEC60601-1-2 4th edition EMC compliance
- 3.5" x 5.5" x 1.75" Package with enclosure
- Suitable for type BF medical products
- Up to 400W with forced air cooling
- IT & Medical Safety Approvals
- Up to 500K Hours MTBF
- Remote on/off control
- Power Good signal
- 12V Fan output

GENERAL SPECIFICATIONS

OUTPUT	400ADB12	400ADB24
Output Voltage	12V	24V
Output Current (Max)	33.33A with 20 CFM forced air	16.67A with 16 CFM forced air
Output Power (Convection)	400W	400W
Efficiency	89.5% @ 115V/60Hz, 91.5% @ 230V/50Hz	92% @ 115V/60Hz, 93% @ 230V/50Hz
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	150mVpk-pkVrated @ Full load	1%pk-pkVrated @ Full load
Load Regulation	±1%	
Leakage Current	0.1mA @ NC, 0.3mA @ SFC	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W x L x H)	88.90 x 140.00 x 44.40 mm (3.5 x 5.5 x 1.75 in)	
EMC & Emissions	Class I model: EN55011/EN55022, FCC Title 47: Class B	
Connector Type	Input: Molex 171813-9998 or Equivalent Earth terminal: PINGOOD JP-13T Output: Kang Yang PCB-12 Signal connector: Molex 104141-1010 Fan output connector: JST B2B-PH-K-S(LF)(SN) Fan output connector: JST S2B-PH-SM4-TB(LF)(SN)	
Unit Weight	610 grams (1.35 lbs)	
MTBF	500K hours	
ENVIRONMENT		
Operating Temperature	-10°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	5,000 meters	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 x MOPP	

unit: mm



Standard Products

ATX Power Supply



Highly reliable design with ATX standard form factor and output cable pin-outs. Certified with medical standards and suitable for use in medical devices with Type BF classification.

Typical Applications



Notes:



All Delta Medical Power products conform to the European directive 2011/65/EU. RoHS is the abbreviation for "Restriction of the use of certain hazardous substances".



Delta has been certified for meeting the requirements of ISO 13485: 2003 and EN ISO 13485: 2012 for the design and production of switching power supplies and adaptors for medical devices.



In addition to the UL Total Certification Program (TCP) approved client laboratory for IEC60950 and IEC60065, Delta has also participated in the UL Client Test Data Program (CTDP) for IEC 60601.

MDS 350AD701 ATX Power Supply

ATX 12V 1U



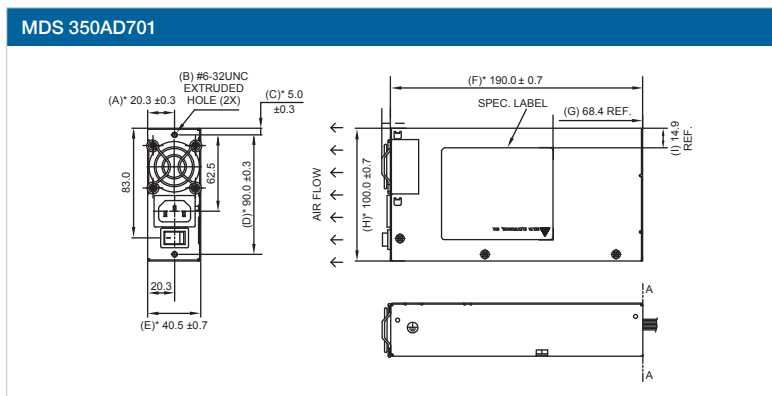
HIGHLIGHTS & FEATURES

- IEC60601-1 3.1 ed. (Medical) & IEC 60950-1 (ITE) approvals
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Suitable for type BF patient access applications
- ATX 12V standard function & form factor
- Maximum output power of 350 watts
- Built-in active PFC

GENERAL SPECIFICATIONS

OUTPUT		350AD701					
Output Voltage	+3.3V	+5V	+5Vsb	+12V1	+12V2	-12V	-5V
Output Current	8.00A	9.00A	1.25A	8.00A	8.00A	0.25A	0.10A
Output Power (Convection)	350W						
Efficiency	82% @ 115Vac/60Hz, 85% @ 230Vac/50Hz						
INPUT							
Input Voltage Range	90-264Vac						
Ripple & Noise	50mVpp		150mVpp		120mVpp		50mVpp
Load Regulation	±5%						±10%
Leakage Current	0.1mA @ NC, 0.3mA @ SFC						
Input Frequency	47-63Hz						
MECHANICAL							
Dimension (W × L × H)	100.00 × 194.00 × 40.50 mm (3.9 × 7.6 × 1.6 in)						
EMC & Emissions	EN55011/EN55022, FCC Title 47: Class B						
Connector Type	P1: Molex 39-01-2240 or Equivalent P2: Molex 39-01-2080 or Equivalent P3: Molex 39-01-2040 or Equivalent						
Unit Weight	1.2Kg (2.6 lbs)						
MTBF	500K hours						
ENVIRONMENT							
Operating Temperature	0°C to +50°C						
Storage Temperature	-40°C to +85°C						
Operating Humidity	5-95% RH (Non-condensing)						
Operating Altitude	5,000 meters						
MEDICAL RATING							
Float Rating	BF						
MOPP	2 × MOPP						

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

Standard Products

Adapter Power Supply



The MDS Adapters series rides on Delta's market leading adapter technology to provide the same high quality external power supplies for medical systems and equipments.

Typical Applications



Notes:



All Delta Medical Power products conform to the European directive 2011/65/EU. RoHS is the abbreviation for "Restriction of the use of certain hazardous substances".



Delta has been certified for meeting the requirements of ISO 13485: 2003 and EN ISO 13485: 2012 for the design and production of switching power supplies and adaptors for medical devices.



In addition to the UL Total Certification Program (TCP) approved client laboratory for IEC60950 and IEC60065, Delta has also participated in the UL Client Test Data Program (CTDP) for IEC 60601.

MDS 005AAS Adapter Power Supply

5/6V 5 WATTS



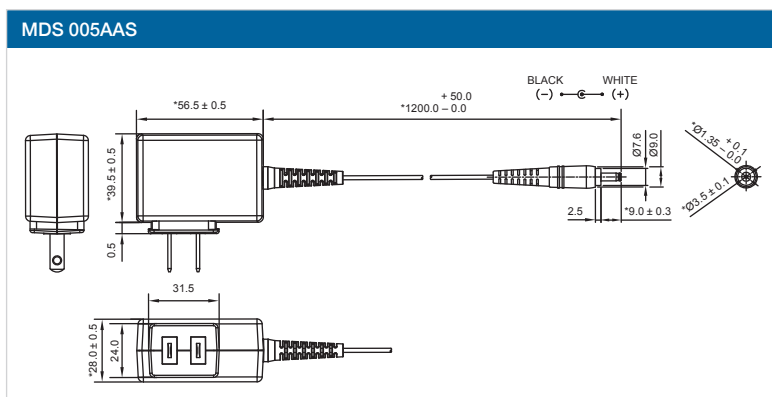
HIGHLIGHTS & FEATURES

- MDS-005AAS05 meet DOE Level VI & ErP 2017 Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety approvals for medical and IT applications
- Risk management report available
- Small size and low weight
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	005AAS05	005AAS06
Output Voltage	5V	6V
Output Current (Max)	1.00A	0.83A
Output Power	5W	5W
Average Efficiency	73.63%	72.40%
INPUT		
Input Voltage Range	90-264Vac	
Ripple & Noise	<200mV (25°C at 10uF/0.47uF with 20MHz bandwidth)	
Load Regulation	±10%	
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz	
Input Frequency	47-63Hz	
MECHANICAL		
Dimension (W × L × H)	39.50 × 56.50 × 28.00 mm (1.6 × 2.2 × 1.1 in)	
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B	
Connector Type	Input: Wall mount – US & EU & CN type Output: O type/Barrel type/Tuning fork type/Micro USB-B type	
Unit Weight	100grams (3.6 ounces)	
MTBF	1 million hours	
ENVIRONMENT		
Operating Temperature	0°C to +40°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5-95% RH (Non-condensing)	
Operating Altitude	3,000 meters	
Degree of Protection	IP22	
Protection Against Shock	Class II	
MEDICAL RATING		
Float Rating	BF	
MOPP	2 × MOPP	

unit: mm



MDS 030AAC Adapter Power Supply

5/7/12/15/24V 30 WATTS



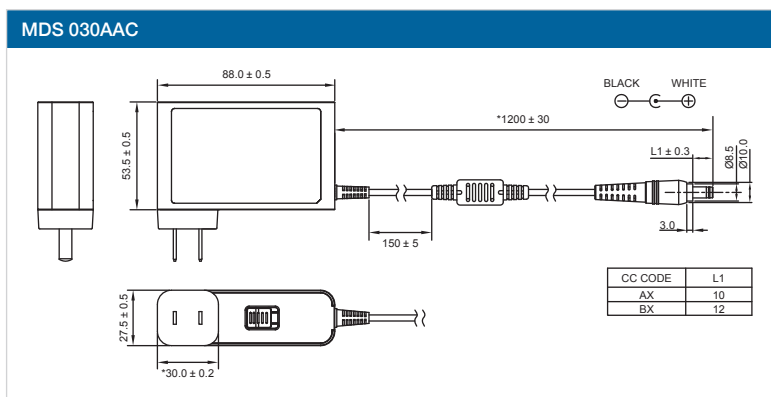
HIGHLIGHTS & FEATURES

- MDS-030AAC05, 12, 15, 24 Meet DOE Level VI & ErP 2017
- Low Leakage Current. Suitable for type BF applications
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Detachable AC plug with multiple country options
- Class B EMI; 4th Edition Immunity Compliance
- Safety rated for medical and IT applications
- 2 × MOPP isolation
- 500K hours MTBF
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	030AAC05	030AAC07	030AAC12	030AAC15	030AAC24
Output Voltage	5V	7V	12V	15V	24V
Output Current (Max)	3.00A	3.00A	2.00A	2.00A	1.25A
Output Power	15W	21W	24W	30W	30W
Average Efficiency	81.40%	81.40%	86.21%	87.00%	87.00%
INPUT					
Input Voltage Range	90-264Vac				
Ripple & Noise	100mVpk-pk		150mVpk-pk	200mVpk-pk	
Load Regulation	±5%				
Leakage Current	0.1mA @ 264Vac NC, 0.3mA @ 264Vac SFC				
Input Frequency	47-63Hz				
MECHANICAL					
Dimension (W × L × H)	53.50 × 88.00 × 27.50 mm (2.11 × 3.46 × 1.08 in)				
EMC & Emissions	EN55011/EN55022, FCC Title 47: Class B				
Connector Type	Input: Wall mount-CN/US/EU/UK/AU/KR/IN/AR/BZ/SA Output: Barrel type/Tuning fork type				
Unit Weight	150 grams				
MTBF	500K hours				
ENVIRONMENT					
Operating Temperature	-0°C to +40°C				
Storage Temperature	-40°C to +85°C				
Operating Humidity	10-95% RH (Non-condensing)				
Operating Altitude	5,000 meters				
Degree of Protection	IP22				
Protection Against Shock	Class II				
MEDICAL RATING					
Float Rating	BF				
MOPP	2 × MOPP				

unit: mm



MDS 060AAS Adapter Power Supply

12/15/19/24V 60 WATTS



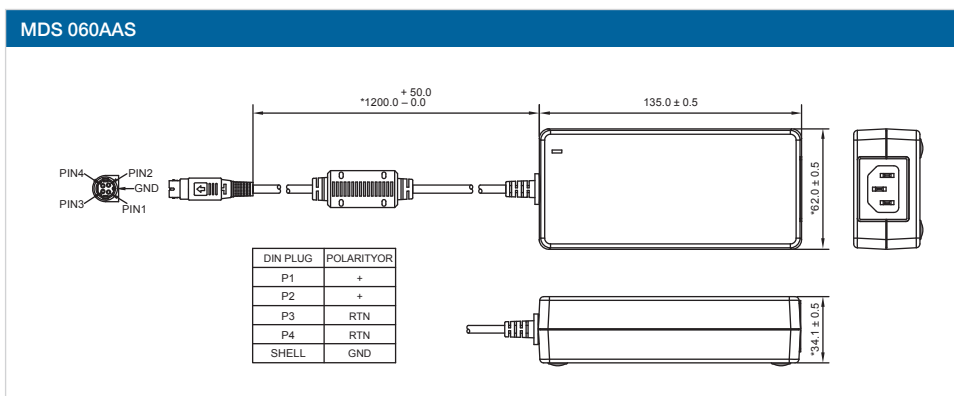
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- MDS-060AAS15, 19 meet DOE Level VI & ErP 2017
- Safety approvals for medical and IT applications
- MDS-060AAS24 meet DOE Level VI
- Class I protection against shock
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	060AAS12	060AAS15	060AAS19	060AAS24
Output Voltage	12V	15V	19V	24V
Output Current (Max)	5.00A	4.00A	3.20A	2.50A
Output Power	60W	60W	60W	60W
Average Efficiency	87%	88%	88%	88%
INPUT				
Input Voltage Range	90-275Vac			
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)			
Load Regulation	±5%			
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz			
Input Frequency	47-63Hz			
MECHANICAL				
Dimension (W × L × H)	62.00 × 135.00 × 34.10 mm (2.4 × 5.3 × 1.3 in)			
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B			
Connector Type	Input: C14 socket Output: 4-pin DIN/Barrel type/Tuning fork type			
Unit Weight	360grams (12.7 ounces)			
MTBF	1 million hours			
ENVIRONMENT				
Operating Temperature	0°C to +40°C			
Storage Temperature	-40°C to +85°C			
Operating Humidity	10-95% RH (Non-condensing)			
Operating Altitude	3,000 meters			
Protection Against Shock	Class I			
MEDICAL RATING				
Float Rating	BF			
MOPP	2 × MOPP			

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

MDS 060BAS Adapter Power Supply

12/19/24V 60 WATTS



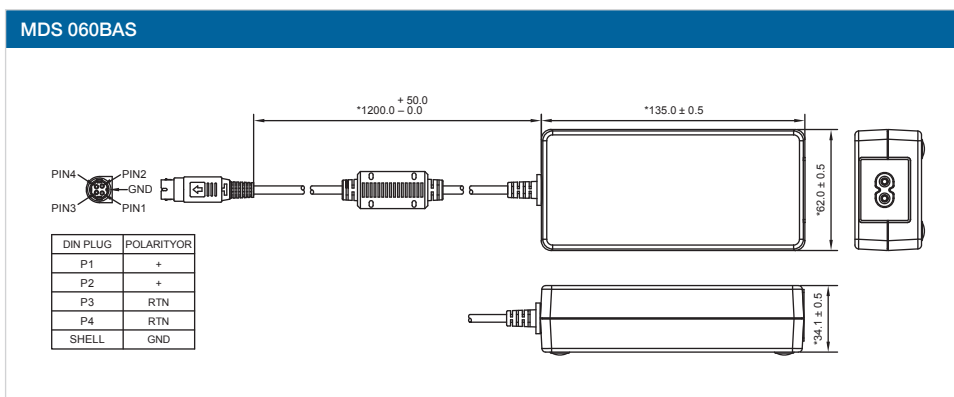
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety approvals for medical and IT applications
- MDS-060BAS12 meet DOE Level VI & ErP 2017
- MDS-060BAS19 meet DOE Level VI
- Class II protection against shock
- 1 million hours MTBF
- 3 years warranty
- 2 × MOPP

GENERAL SPECIFICATIONS

OUTPUT	060BAS12	060BAS19	060BAS24
Output Voltage	12V	19V	24V
Output Current (Max)	5.00A	3.15A	2.50A
Output Power	60W	60W	60W
Average Efficiency	88%	88%	87%
INPUT			
Input Voltage Range	90-264Vac		
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)		
Load Regulation	±5%		
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz		
Input Frequency	47-63Hz		
MECHANICAL			
Dimension (W × L × H)	62.00 × 135.00 × 34.10 mm (2.4 × 5.3 × 1.3 in)		
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B		
Connector Type	Input: C8 socket Output: 4-pin DIN/Barrel type/Tuning fork type		
Unit Weight	340 grams (12.0 ounces)		
MTBF	1 million hours		
ENVIRONMENT			
Operating Temperature	-0°C to +40°C		
Storage Temperature	-40°C to +85°C		
Operating Humidity	10-95% RH (Non-condensing)		
Operating Altitude	3,000 meters		
Degree of Protection	IP22		
Protection Against Shock	Class II		
MEDICAL RATING			
Float Rating	BF		
MOPP	2 × MOPP		

unit: mm



MDS 080AAS Adapter Power Supply

12V 80 WATTS



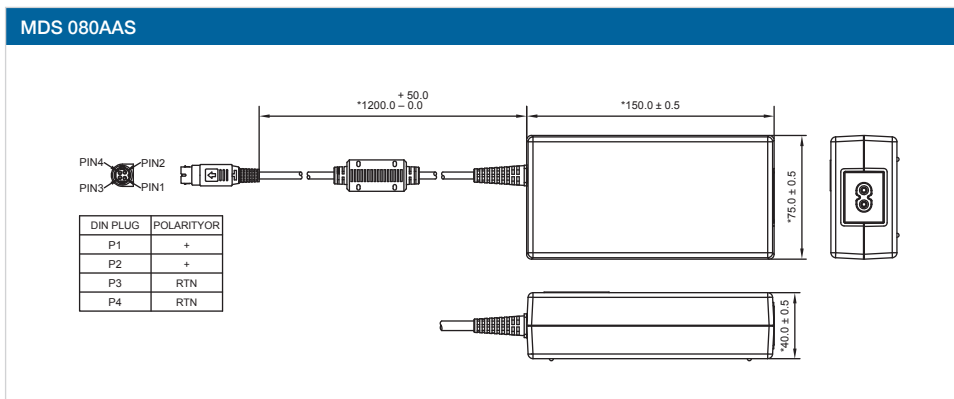
HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Class II input with C8 AC inlet
- Universal input 90-264Vac
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	080AAS12
Output Voltage	12V
Output Current (Max)	6.67A
Output Power	80W
Average Efficiency	80%
INPUT	
Input Voltage Range	90-264Vac
Ripple & Noise	118.4 mVpk-pk @ Rated Load
Load Regulation	±5%
Touch Current	81.6uA normal condition, 87.4uA single fault condition
Input Frequency	47-63Hz
MECHANICAL	
Dimension (W × L × H)	75.00 × 150.00 × 40.00 mm (3.0 × 5.9 × 1.6 in)
EMC & Emissions	EN55011/EN55022, FCC Title 47: Class B
Connector Type	Output: 4-pin DIN/Barrel type/Tuning fork type
Unit Weight	500 grams (17.64 ounces)
MTBF	1 million hours
ENVIRONMENT	
Operating Temperature	0°C to +40°C
Storage Temperature	-40°C to +85°C
Operating Humidity	10-95% RH (Non-condensing)
Operating Altitude	5,000 meters
Protection Against Shock	Class II
MEDICAL RATING	
Float Rating	BF
MOPP	2 × MOPP

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

MDS 090AAS Adapter Power Supply

15/19/24V 90 WATTS



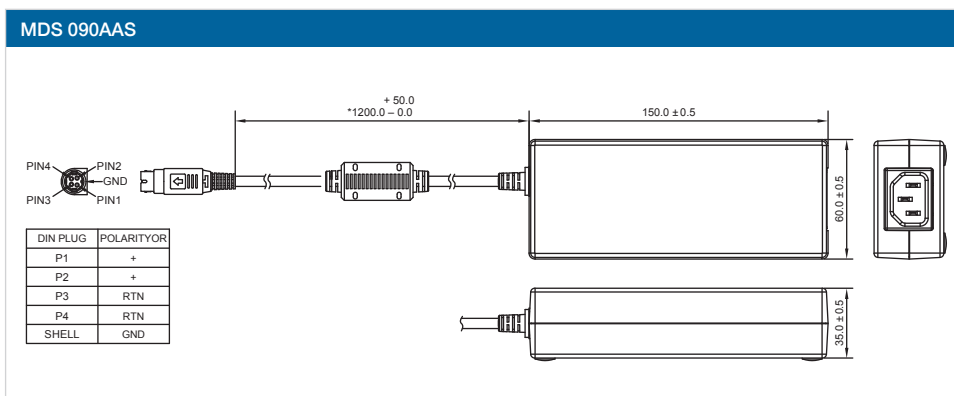
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety approvals for medical and IT applications
- MDS-090AAS15 meet DOE Level VI & ErP 2017
- MDS-090AAS19, 24 meet DOE Level VI
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	090AAS15	090AAS19	090AAS24
Output Voltage	15V	19V	24V
Output Current (Max)	6.00A	4.74A	3.75A
Output Power	90W	90W	90W
Average Efficiency	88%	88%	88%
INPUT			
Input Voltage Range	90-264Vac		
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)		
Load Regulation	±5%		
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz		
Input Frequency	47-63Hz		
MECHANICAL			
Dimension (W × L × H)	65.00 × 150.00 × 35.00 mm (2.6 × 5.9 × 1.4 in)		
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B		
Connector Type	Input: C14 socket Output: 4-pin DIN/Barrel type/Tuning fork type		
Unit Weight	450grams (16.2 ounces)		
MTBF	1 million hours		
ENVIRONMENT			
Operating Temperature	-0°C to +40°C		
Storage Temperature	-40°C to +85°C		
Operating Humidity	10-95% RH (Non-condensing)		
Operating Altitude	3,000 meters		
Protection Against Shock	Class I for F series, Class II with functional earth for B series		
MEDICAL RATING			
Float Rating	B		
MOPP	2 × MOPP		

unit: mm



MDS 090BAS24 Adapter Power Supply

24V 90 WATTS



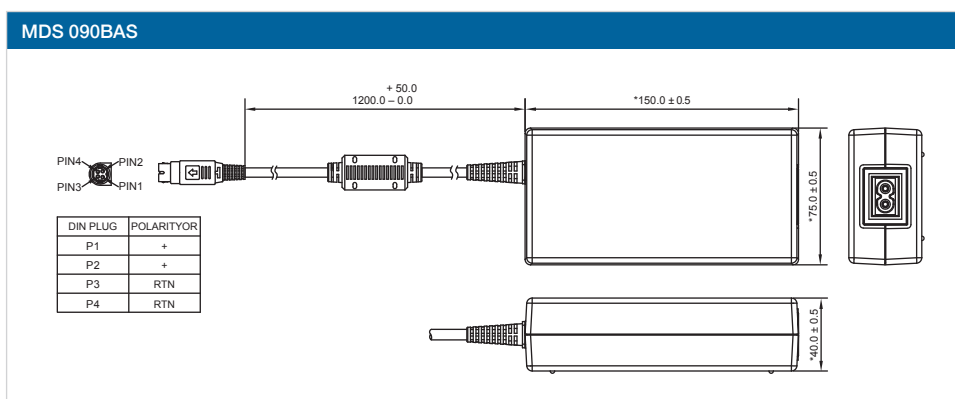
HIGHLIGHTS & FEATURES

- Low Leakage Current (<0.1mA Normal & 0.3mA single fault)
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety rated for medical and IT applications
- Risk management report available
- High isolation: 2 × MOPP
- 1 million hours MTBF
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	090BAS24
Output Voltage	24V
Output Current (Max)	3.75A
Output Power	90W
Average Efficiency	88%
INPUT	
Input Voltage Range	90-264Vac
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)
Load Regulation	±5%
Touch Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz
Input Frequency	47-63Hz
MECHANICAL	
Dimension (W × L × H)	75.00 × 150.00 × 40.00 mm (3.0 × 5.9 × 1.6 in)
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B
Connector Type	Input: C8 socket Output: 4-pin DIN/Barrel type/Tuning fork type
Unit Weight	500 grams (17.64 ounces)
MTBF	1 million hours
ENVIRONMENT	
Operating Temperature	-0°C to +40°C
Storage Temperature	-40°C to +85°C
Operating Humidity	10-95% RH (Non-condensing)
Operating Altitude	5,000 meters
Degree of Protection	IP22
Protection Against Shock	Class II
MEDICAL RATING	
Float Rating	BF
MOPP	2 × MOPP

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

MDS 150AAS Adapter Power Supply

12/19/24V 150 WATTS



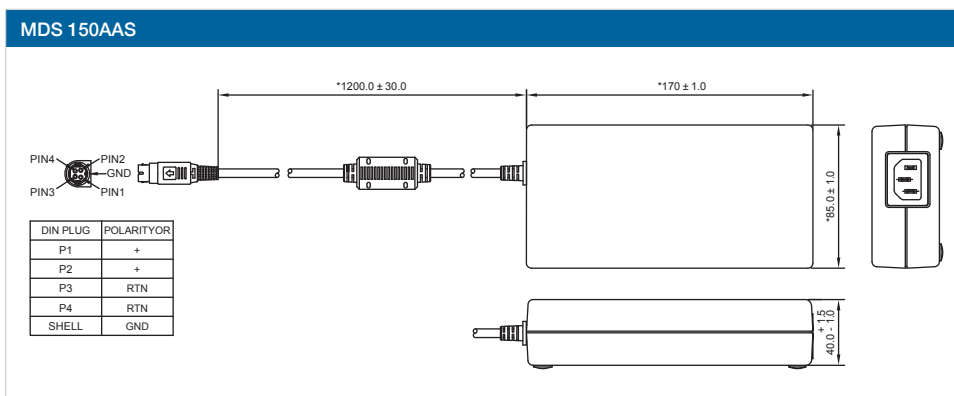
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (<0.1mA Normal & 0.3mA single fault)
- Compliant with IEC 60601-1-2 4th Ed. Requirements
- Safety approvals for medical and IT applications
- MDS-150AAS19 meet DOE Level VI & ErP 2017
- MDS-150AAS12, 24 meet DOE Level VI
- 1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	150AAS12	150AAS19	150AAS24
Output Voltage	12V	19V	24V
Output Current (Max)	10.00A	7.89A	6.25A
Output Power	120W	150W	150W
Average Efficiency	88%	88%	88%
INPUT			
Input Voltage Range	90-264Vac		
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)		
Load Regulation	±5%		
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz		
Input Frequency	47-63Hz		
MECHANICAL			
Dimension (W × L × H)	85.00 × 170.00 × 40.00 mm (3.4 × 6.7 × 1.6 in)		
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B		
Connector Type	Input: C14 socket Output: 4-pin DIN/Barrel type/Tuning fork type (Select the appropriate DC plug according to the current)		
Unit Weight	1.1kg (39.6 ounces)		
MTBF	1 million hours		
ENVIRONMENT			
Operating Temperature	-0°C to +40°C		
Storage Temperature	-40°C to +85°C		
Operating Humidity	10-95% RH (Non-condensing)		
Operating Altitude	3,000 meters		
Protection Against Shock	Class I for F series, Class II with functional earth for B series		
MEDICAL RATING			
Float Rating	B		
MOPP	2 × MOPP		

unit: mm



MDS 150CAB19 Adapter Power Supply

19V 150 WATTS



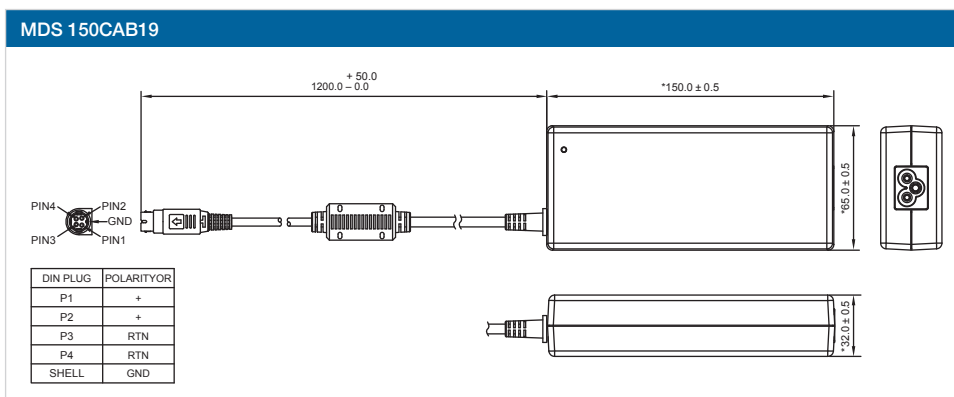
HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Safety rated for medical and IT applications
- 90-264 Vac universal input
- 2.1 million hours MTBF
- 2 × MOPP isolation
- 3 years warranty

GENERAL SPECIFICATIONS

OUTPUT	150CAB19
Output Voltage	19V
Output Current (Max)	7.90A
Output Power	150W
Average Efficiency	88%
INPUT	
Input Voltage Range	90-264Vac
Ripple & Noise	<1% (25°C at 10uF/0.47uF with 20MHz bandwidth)
Load Regulation	±5%
Leakage Current	<0.1mA normal condition, <0.3mA SFC at 264Vac/63Hz
Input Frequency	47-63Hz
MECHANICAL	
Dimension (W × L × H)	65.00 × 150.00 × 32.00 mm (2.6 × 5.9 × 1.3 in)
EMC & Emissions	EN55011 & EN55022 & FCC conducted & radiated class B
Connector Type	Input: C6 socket Output: 4-pin DIN/Tuning fork type
Unit Weight	0.52kg (18.4 ounces)
MTBF	2.1 million hours
ENVIRONMENT	
Operating Temperature	0°C to +40°C
Storage Temperature	-40°C to +85°C
Operating Humidity	10-95% RH (Non-condensing)
Operating Altitude	5,000 meters
Degree of Protection	IP22
Protection Against Shock	Class I
MEDICAL RATING	
Float Rating	B
MOPP	2 × MOPP

unit: mm



Open Frame Power Supply

Enclosed Power Supply

ATX Power Supply

Adapter Power Supply

Standards & Approvals

Delta Standard Medical Power Supplies

	CE	CB Scheme to IEC 60601-1	CB Scheme to IEC 60950-1	UL 60601-1	UL 60950-1	CQC (China)	CCC (China)	TUV to EN 60601-1	TUV to EN 60950-1	EN 55011 Class B (Emissions)	EN 55022 Class B (Emissions)
Open Frame Power Supply											
MDS-040APS12 B	●	●	●	●	●	●	●			●	●
MDS-040APS15 B	●	●	●	●	●	●	●			●	●
MDS-040APS18 B	●	●	●	●	●	●	●			●	●
MDS-040APS24 B	●	●	●	●	●	●	●			●	●
MDS-065APS12 B	●	●	●	●	●	●				●	●
MDS-065APS15 B	●	●	●	●	●	●				●	●
MDS-065APS18 B	●	●	●	●	●	●				●	●
MDS-065APS24 B	●	●	●	●	●	●				●	●
MDS-100AP401 B	●	●	●	●	●	●				●	●
MDS-100APS12 B	●	●	●	●	●	●		●		●	●
MDS-100APS15 B	●	●	●	●	●	●				●	●
MDS-100APS18 B	●	●	●	●	●	●				●	●
MDS-100APS24 B	●	●	●	●	●	●				●	●
MDS-100BPS12 B	●	●	●	●	●	●				●	●
MDS-100BPS15 B	●	●	●	●	●	●				●	●
MDS-100BPS18 B	●	●	●	●	●	●				●	●
MDS-100BPS24 B	●	●	●	●	●	●				●	●
MDS-200APB12*	●	●	●	●	●		●	●	●	●	●
MDS-200APB24*	●	●	●	●	●		●	●	●	●	●
MDS-250APB12*	●	●	●	●	●		●	●	●	●	●
MDS-250APB24*	●	●	●	●	●		●	●	●	●	●
MDS-300APB12*	●	●	●	●	●		●	●	●	●	●
MDS-300APB18*	●	●	●	●	●		●	●	●	●	●
MDS-300APB24*	●	●	●	●	●		●	●	●	●	●
MDS-300APB48*	●	●	●	●	●		●	●	●	●	●
MDS-400APB12*	●	●	●	●	●		●	●	●	●	●
MDS-400APB24*	●	●	●	●	●		●	●	●	●	●
MDS-400AUS19 B	●	●	●	●	●		●	●	●	●	●
MDS-400AUS24 B	●	●	●	●	●		●	●	●	●	●
Enclosed Power Supply											
MDS-200ADB12	●	●	●	●	●		●	●	●	●	●
MDS-200ADB24	●	●	●	●	●		●	●	●	●	●
MDS-250ADB12	●	●	●	●	●		●	●	●	●	●
MDS-250ADB24	●	●	●	●	●		●	●	●	●	●
MDS-300ADB12	●	●	●	●	●		●	●	●	●	●
MDS-300ADB18	●	●	●	●	●		●	●	●	●	●
MDS-300ADB24	●	●	●	●	●		●	●	●	●	●
MDS-400ADB12	●	●	●	●	●		●	●	●	●	●
MDS-400ADB24	●	●	●	●	●		●	●	●	●	●
MDS-300ADB48	●	●	●	●	●		●	●	●	●	●

	CE	CB Scheme to IEC 60601-1	CB Scheme to IEC 60950-1	UL 60601-1	UL 60950-1	CQC (China)	CCC (China)	TUV to EN 60601-1	TUV to EN 60950-1	EN 55011 Class B (Emissions)	EN 55022 Class B (Emissions)
ATX Power Supply											
MDS-350AD701	●	●	●	●	●		●				
Adapter Power Supply											
MDS-005AAS05 A	●	●		●			●			●	●
MDS-005AAS05 B	●	●		●						●	●
MDS-005AAS05 C	●	●								●	●
MDS-005AAS06 A	●	●					●				
MDS-005AAS06 B	●	●		●						●	●
MDS-005AAS06 C	●	●								●	●
MDS-030AAC05*	●	●		●			●			●	●
MDS-030AAC07*	●	●		●			●			●	●
MDS-030AAC12*	●	●		●			●			●	●
MDS-030AAC15*	●	●		●			●			●	●
MDS-030AAC24*	●	●		●			●			●	●
MDS-060AAS12 B	●	●		●			●			●	●
MDS-060AAS15 B	●	●		●			●			●	●
MDS-060AAS19 B	●	●		●			●			●	●
MDS-060AAS24 B	●	●		●			●			●	●
MDS-060BAS12 A	●	●		●			●			●	●
MDS-060BAS19 A	●	●		●			●			●	●
MDS-060BAS24 A	●	●		●			●			●	●
MDS-080AAS12 A	●	●		●			●			●	●
MDS-090AAS15 B	●	●		●			●			●	●
MDS-090AAS19 B	●	●		●			●			●	●
MDS-090AAS24 B	●	●		●			●			●	●
MDS-090BAS24 A	●	●		●			●			●	●
MDS-150AAS12 B	●	●		●			●			●	●
MDS-150AAS19 B	●	●		●			●			●	●
MDS-150AAS24 B	●	●		●			●			●	●
MDS-150CAB19	●	●		●			●			●	●

Notes

Warranty

Delta warrants that the products (“Products”) sold in this catalog will be free of defects in material and workmanship within the warranty period. The warranty does not apply to Products which have been subjected to abuse, misuse, accident, neglect, unauthorized and/or improper installation, operation, use, maintenance, repair or alteration, or accident of unusual deterioration or degradation of the Products or parts thereof due to physical environment beyond the requirements of the Product specifications.

Attention

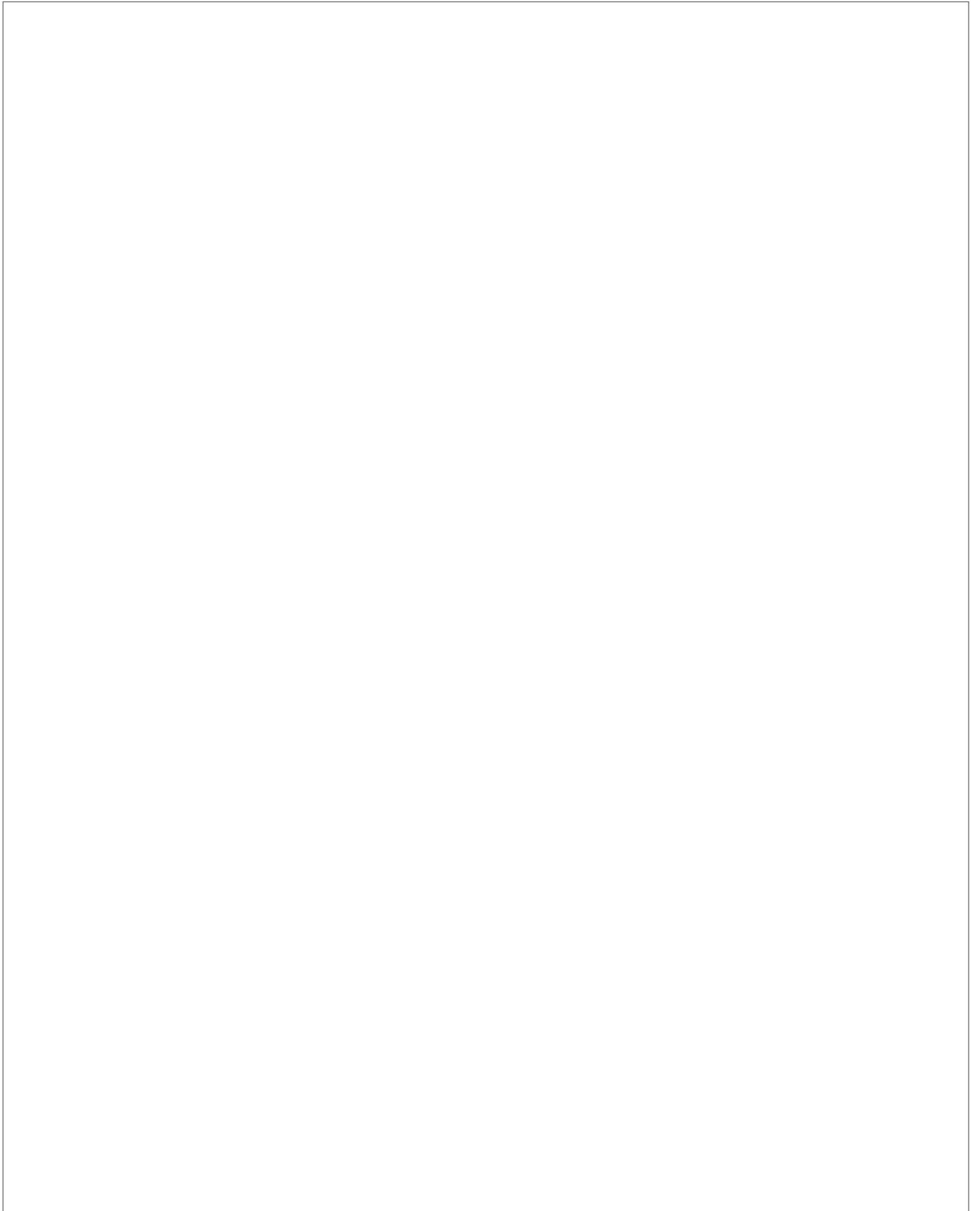
- Delta will do our utmost in ensuring the accuracy of all information provided in the catalog and datasheets that are officially released and published. However, there may be instance where discrepancy occurs between the catalog and the datasheets. When such case happens, kindly refer to **www.DeltaPSU.com** for the latest catalog and datasheets or the datasheets shall take precedence over the catalog information.
- In our constant pursuit for product and quality excellence to fulfill market and customer demands, Delta shall reserve the rights to revise and update any information in this catalog without prior notification.

EMC Directives

At Delta, all of our products are designed to meet the highest quality standards. All national and international safety certifications including EMC directives are conducted by qualified and independent laboratories. For EMC directives’ compliance, the power supplies are tested to ensure compliance as a stand-alone product. Power supplies like the open frame and adapter types are typically considered component power supplies. Therefore, Delta cannot guarantee the system which is installed with Delta’s component power supply can meet the related EMC directives. Customers are advised to contact the system manufacturer for confirmation.

Availability

Products with “New” tab are slated for official release with immediate effect, while products with “Coming Soon” tab will be available within the next two months from this catalog’s publication month (Refer to cover page). Kindly contact your local Delta distributor for availability, ordering and delivery details. You may also get in touch with us via the Feedback Form on **www.deltapsu.com/feedback**.



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