

Medical Power Supplies





ABOUT DELTA

Delta was founded in 1971 and has been the global leader in switching power supply solutions since 2002 and DC brushless fans since 2006. Delta offers some of the most energy efficient power products in the industry, including switching power supplies with efficient over 90%, telecom power with up to 98%, and PV inverters with up to 98.8% efficient. We have also developed the world's first server power supply certified as 80 Plus Titanium with over 96% efficient. We regularly invest 6% to 7% of our annual sales revenues in R&D and have worldwide R&D facilities in Taiwan, China, Europe, India, Japan, Singapore, Thailand, and the U.S.

BUSINESS CATEGORIES



Power Electronics

- Components
- Embedded Power
- Fan & Thermal Management
- Automotive Electronics
- Merchant & Mobile Power Innergie



Automation

- Industrial Automation
- Building Automation



- ICT Infrastructure
- Energy Infrastructure & Industrial Solutions







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| APPLICATIONS

Delta's medical power supplies are ideal for healthcare and medical applications because of their high quality, high output power, and high power density. This range includes AC adapters, open frame, enclosed, and configurable models for applications requiring high reliability and performance. All products in this series conform to major industrial safety standards.

The application examples below highlight some of the key power supply series suitable to meet the system requirements.

Applicable Series



MDS, MEB, MEU, MEG-A, MEA



MEB, MEU, MEG-A



MEB, MEU



MEB, MEU, MEG-A





Medical **Equipment**

- Concentrator





Test & Measurement

- AC Power Source







Machine Automation

LATEST PRODUCTS

MEB

Panel Mount for Medical, ITE and Home Appliances

Output Voltage: 24V, 48V Output Power: 750W

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MEU

U-Frame with Remote ON/OFF and Power Good Signal

Output Voltage: 24V Output Power: 650W

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MEG-A

3 Slots Modules Configurable with Compact Size

Output Voltage: 2V-60V Output Power: 700W

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MEG-A

9 Slots Modules Configurable with PC GUI

Output Voltage: 2V-60V Output Power: 3,000W

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MEA

Compact Size Adapter for Medical and Industrial Applications

Output Voltage: 12V, 15V, 19V, 24V

Output Power: 90W

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PRODUCT SELECTION GUIDE

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

			СС	lmm.rt	Output	Outrout	Conv	ection	Force	ed Air	
Product Type	Series	Model Name	Code	Input Terminal	Output Terminal	Output Voltage	Output Current	Output Power	Output Current	Output Power	Page
Enclosed Power Supply	MDS	MDS-200ADB12	AA	Molex 171813-9998	JST B4P-VH	12V	9.17A	110W	16.67A	200W	11
		MDS-250ADB12	AA	Molex	M3 PCB terminal		11.25A	150W	20.84A	250W	
		MDS-250ADB12	AB	26-62-4030			11.25A	150W	20.84A	250W	
		MDS-300ADB12	AA	Molex 26-62-4030	M3 PCB terminal		15.83A	190W	25.0A	300W	
		MDS-400ADB12	AA	Molex 171813-9998	M3 PCB terminal				33.33A	400W	
		MDS-300ADB18	AA	Molex	M3 PCB terminal	18V	10.55A	190W	16.66A	300W	
		MDS-300ADB18	AB	171813-9998			10.55A	190W	16.66A	300W	
		MDS-200ADB24	AA	Molex 171813-9998	JST B4P-VH	24V	5.0A	120W	8.33A	200W	12
		MDS-250ADB24	AA	Molex 171813-9998	M3 PCB terminal		5.62A	150W	10.41A	250W	
		MDS-300ADB24	AA	Molex	M3 PCB terminal		8.75A	210W	12.5A	300W	
		MDS-300ADB24	AB	26-62-4030			8.75A	210W	12.5A	300W	
		MDS-400ADB24	AA	Molex	M3 PCB terminal				16.67A	400W	
		MDS-400ADB24	AB	71813-9998					16.67A	400W	
		MDS-300ADB48	AA	Molex	M3 PCB terminal	48V	4.375A	210W	6.25A	300W	
		MDS-300ADB48	AB	26-62-4030			4.375A	210W	6.25A	300W	
	MEB • Intelligent Fan	MEB-500A24F	AA	Deca T24-E03103A302	Deca DT-65-C14W-02	24V			21.0A	500W	13
	Speed Control	MEB-750A24B	AAA	TECX TU-301-SP-SA- AD2(D)V0	M5 PCB terminal				31.25A	750W	
		MEB-750A24T	AAA	Dinkle DT-2G-B95W-03	M5 PCB terminal				31.25A	750W	
		MEB-750A48B	AAA	Dinkle	M5 PCB terminal	48V			15.63A	750W	
		MEB-750A48T	AAA	DT-2G-B95W-03					15.63A	750W	
		MEB-1K2A24T	ABA	Anytek YK50A0323009G	M5 PCB terminal	24V			50.0A	1,200W	14
		MEB-1K2A42T	ABA	Anytek YK50A0323009G	M5 PCB terminal	42V			28.5A	1,200W	
		MEB-1K2A48T	ABA	Anytek YK50A0323009G	M5 PCB terminal	48V			25.0A	1,200W	

MDS -	XXX	Α		В		00
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	Input Connector Type	Output Voltage	CC Code 1)
MDS-200A series MDS-250A series MDS-300A series MDS-400A series	200 - 200W 250 - 250W 300 - 300W 400 - 400W	A - Family A	D - Enclosed P - Open Frame	B - Class I 3-pin connector	12 - 12V 18 - 18V 24 - 24V 36 - 36V 48 - 48V	

ME	B –	XXX	Α			000
Delta B - Medical Power Supply	B - Enclosed	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	Input Connector Type	CC Code
		500 - 500W		24 - 24V	F - Front Face	AA - With Remote ON/OFF, with conformal coating
		750 - 750W		24 - 24V 48 - 48V	B - C14 T - US Terminal	AAA - With Remote ON/OFF, with conformal coating
		1K2 - 1,200W		24 - 24V 42 - 42V 48 - 48V	T - US Terminal	ABA - With Remote ON/OFF, with conformal coating

¹⁾ Refer to technical datasheet

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			СС	Input	Output	Output	Conv	ection	Force	ed Air	
Product Type	Series	Model Name	Code	Input Terminal	Output Terminal	Output Voltage	Output Current	Output Power	Output Current	Output Power	Paç
pen Frame	MDS	MDS-040APS12B	А	JST B2P3-VH	JST B4P-VH	12V	3.33A	40W			16
ower Supply		MDS-065APS12B	Α	JST B2P3-VH	JST B4P-VH		5.42A	65W			1
		MDS-100APS12B	Α	JST B2P3-VH	JST B8P-VH		8.33A	100W			
		MDS-100BPS12B	Α	JST B2P3-VH	JST B4P-VH		6.67A	80W	8.33A	100W	
		MDS-200APB12	AA	Molex 171813-9998	JST B4P-VH		10.83A	130W	16.67A	200W	1
		MDS-250APB12	AA	Molex	M3 PCB terminal		12.5A	150W	20.84A	250W	
		MDS-250APB12	AB	26-62-4030	WO T OB terminal		12.5A	150W	20.84A	250W	
		MDS-300APB12	AA	Molex 26-62-4030	M3 PCB terminal		18.33A	220W	25.0A	300W	
		MDS-400APB12	AA	Molex	M3 PCB terminal		16.67A	200W	33.33A	400W	
		MDS-400APB12	AB	171813-9998	WO I OD terminal		16.67A	200W	33.33A	400W	
		MDS-040APS15B	Α	JST B2P3-VH	JST B4P-VH	15V	2.67A	40W			
		MDS-065APS15B	A	JST B2P3-VH	JST B4P-VH	-	4.2A	63W			-
		MDS-100APS15B	A	JST B2P3-VH	JST B8P-VH		6.67A	100W			
		MDS-100AI S13B	A	JST B2P3-VH	JST B4P-VH		5.3A	80W	6.7A	100W	1
						18V			0.7A	10000	
		MDS-040APS18B	A	JST B2P3-VH	JST B4P-VH	187	2.22A	40W			
		MDS-065APS18B	Α	JST B2P3-VH	JST B4P-VH		3.61A	65W			
		MDS-100APS18B	А	JST B2P3-VH	JST B8P-VH		5.55A	100W			
		MDS-100BPS18B	Α	JST B2P3-VH	JST B4P-VH		4.4A	80W	5.5A	100W	
		MDS-300APB18	AA	Molex	M3 PCB terminal		12.22A	220W	16.66A	300W	
		MDS-300APB18	AB	171813-9998			12.22A	220W	16.66A	300W	
		MDS-040APS24B	Α	JST B2P3-VH	JST B4P-VH	24V	1.67A	40W			
		MDS-065APS24B	Α	JST B2P3-VH	JST B4P-VH		2.71A	65W			
		MDS-100APS24B	Α	JST B2P3-VH	JST B8P-VH		4.17A	100W			
		MDS-100BPS24B	Α	JST B2P3-VH	JST B4P-VH		3.3A	80W	4.2A	100W	
		MDS-200APB24	AA	Molex 171813-9998	JST B4P-VH		5.83A	140W	8.33A	200W	
		MDS-250APB24	AA	Molex	M3 PCB terminal		6.25A	150W	10.41A	250W	
		MDS-250APB24	AB	171813-9998			6.25A	150W	10.41A	250W	
		MDS-300APB24	AA	Molex	M3 PCB terminal		10.0A	240W	12.5A	300W	
		MDS-300APB24	AE	26-62-4030			10.0A	240W	12.5A	300W	
		MDS-400APB24	AA	Molex	M3 PCB terminal		8.33A	200W	16.66A	400W	
		MDS-400APB24	AB	171813-9998			8.33A	200W	16.66A	400W	
		MDS-200APB36	AA	Molex 171813-9998	JST B4P-VH	36V	3.33A	120W	5.56A	200W	
		MDS-300APB48	AA	Molex	M3 PCB terminal	48V	5.0A	240W	6.25A	300W	
		MDS-300APB48	AB	26-62-4030			5.0A	240W	6.25A	300W	
		MDS-400AUS19B	А	Deca T33-BM1103A301	Deca T33-BM1104A301	19V	15.8A	300W	21.1A	400W	
		MDS-400AUS24B	А	Deca T33-BM1103A301	Deca T33-BM1104A301	24V	12.5A	300W	16.67A	400W	
		MDS-400AUS30B	А	Deca T33-BM1103A301	Deca T33-BM1104A301	30V	11.67A	350W	13.33A	400W	

MDS -	XXX			S		В	
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	No. of Output	Output Voltage	Input Connector Type	CC Code 1)
MDS-040APS series MDS-065APS series MDS-100APS series	040 - 40W 065 - 65W 100 - 100W	A - Family A	P - Open Frame	S - Single Output	12 - 12V 15 - 15V 18 - 18V 24 - 24V	B - Class I 3-pin connector	
MDS-100BPS series	100 - 100W	B - Family B	1				
MDS-400AUS series	400 - 400W	A - Family A	U - U Frame		19 - 19V 24 - 24V 30 - 30V		

¹⁾ Refer to technical datasheet

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			СС	Input	Output	Outrout	Conve	ection	Force	d Air	
Product Type	Series	Model Name	Code			Output Voltage	Output Current		Output Current		Page
Open Frame Power Supply	• PMBus Ver 1.3	MEU-600C24T	AAA	Anytek YK4020323200G	M5 PCB terminal	24V	25.0A	600W			24
	for selected models	MEU-650A24T	AAA	DG 128-7.5-03P-1Y	M4 PCB terminal		18.75A	450W	27.08A	650W	
	Convection cooled	MEU-600C48T	AAA	Anytek YK4020323200G	M5 PCB terminal	48V	12.5A	600W			

Product Type	Series	Model Name	CC Code	Input Terminal	Output Terminal		Output Current	Output Power	Page
ATX Power Supply	MDS	MDS-350AD701	AA	C14	Wire harness	+3.3V, +5V, +5V _{SB} , +12V ₁ , +12V ₂ , -12V, -5V	8.0A, 9.0A, 1.25A, 8.0A, 8.0A, 0.25A, 0.1A	350W	26

Product Type	Series	Model Name	Module Slots	Output Voltage	Output Power (Max)	Page
Configurable Power Supply	MEG-A • PMBus Ver 1.3	MEG-700A3	3 Slots	Single Output Single Slot: 2V-60V Triple Slot: 8V-60V	700W	28
	for selected models • IT & Medical	MEG-1K2A4	4 Slots	Dual Output Single Slot: 3.3V-30V	1,200W	29
	safety approvals	MEG-2K1A6	6 Slots	origie diot. 0.0v-00v	2,100W	
		MEG-3K0A9	9 Slots		3,000W	

ME	U –	XXX				000
Delta Medical Power	U - U Frame	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	Input Connector Type	CC Code
Supply		600 - 600W	C - Family C	24 - 24V 48 - 48V	T - Terminal Block (Class I)	AAA - With Remote ON/OFF, with conformal coating
		650 - 650W	A - Family A	24 - 24V		

MDS -	XXX	Α	D	701	
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	Output Voltage	CC Code 1)
	350 - 350W	A - Family A	D - Enclosed	701 - +3.3V, +5V, +5V _{SB} , +12V ₁ , +12V ₂ , -12V, -5V	

¹⁾ Refer to technical datasheet

ME	G –	XXX	Α	
Medical Power		Max power wattage in the product series. May be lower at some conditions.	Family Code	Slot Number
Supply		700 - 700W	A - Family A	3 - 3 Slots
		1K2 - 1,200W		4 - 4 Slots
		2K1 - 2,100W		6 - 6 Slots
		3K0 - 3,000W		9 - 9 Slots

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Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page
Adapter	MDS	MDS-005AAS05	AU	5V	1.0A	5W	31
		MDS-005AAS05	AV		1.0A	5W	
		MDS-005AAS05	BU		1.0A	5W	
		MDS-005AAS05	BV		1.0A	5W	
		MDS-005AAS05	CU		1.0A	5W	
		MDS-005AAS05	CV		1.0A	5W	
		MDS-030AAC05	AA		3.0A	15W	
		MDS-030AAC05	AB		3.0A	15W	
		MDS-030AAC05	AC		3.0A	15W	
		MDS-030AAC12	AA	12V	2.0A	24W	32
		MDS-030AAC12	AB		2.0A	24W	
		MDS-030AAC12	BB		2.0A	24W	
		MDS-060BAS12	AB		5.0A	60W	
		MDS-080AAS12	AB		6.67A	W08	
		MDS-150AAS12	BA		10.0A	120W	
		MDS-030AAC15	AA	15V	2.0A	30W	33
		MDS-030AAC15	AB		2.0A	30W	
		MDS-030AAC15	AC		2.0A	30W	
		MDS-090AAS15	BA		6.0A	90W	
		MDS-090AAS15	BE		6.0A	90W	
		MDS-090AAS15	FA		6.0A	90W	
		MDS-090AAS15	FE		6.0A	90W	
		MDS-060BAS19	AA	19V	3.15A	60W	34
		MDS-090AAS19	BA		4.73A	90W	
		MDS-090AAS19	BE		4.73A	90W	
		MDS-090AAS19	FA		4.73A	90W	
		MDS-090AAS19	FE		4.73A	90W	
		MDS-150AAS19	BA		7.89A	150W	
		MDS-150AAS19	FA		7.89A	150W	
		MDS-150CAB19	AA		7.9A	150W	

,							CC Code	
MDS -	XXX		Α	S				
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	No. of Output	Output Voltage	Input Connector Type	Refer to technical datasheet	
MDS-005AAS series	005 - 5W	A - Family A	A - Adapter	S - Single Output	05 - 5V	A - CN B - US C - EU		
MDS-060BAS series	060 - 60W	B - Family B			12 -12V 19 - 19V 24 - 24V	A - C8		
MDS-080AAS series	080 - 80W	A - Family A			12 -12V			

MDS -	XXX	AAC		00
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	CC Code 1)
MDS-030AAC series	030 - 30W		05 - 5V 12 - 12V 15 - 15V 24 - 24V	

MDS -	XXX	С	Α	В	19	00
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	Input Connector Type	Output Voltage	CC Code 1)
	150 - 150W	C - Family C	A - Adapter	B - Class I C6	19 - 19V	

¹⁾ Refer to technical datasheet

| Medical Power Supplies

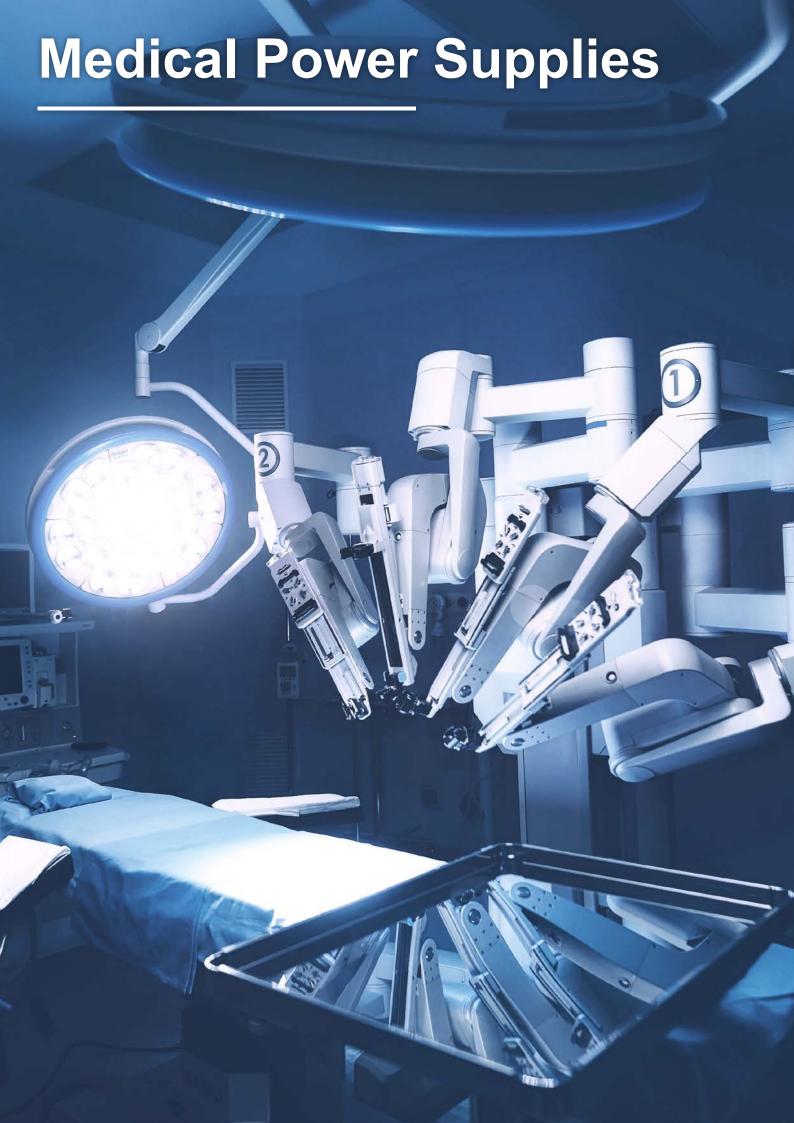
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Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page
Adapter	MDS	MDS-030AAC24	AA	24V	1.25A	30W	35
		MDS-030AAC24	AC		1.25A	30W	
		MDS-060BAS24	AA		2.5A	60W	
		MDS-090AAS24	BA		3.75A	90W	
		MDS-090AAS24	BE		3.75A	90W	
		MDS-090AAS24	FA		3.75A	90W	
		MDS-090AAS24	FE		3.75A	90W	
		MDS-090BAS24	AB		3.75A	90W	36
		MDS-150AAS24	BA		6.25A	150W	
		MDS-150AAS24	BE		6.25A	150W	
		MDS-150AAS24	FA		6.25A	150W	
	MEA	MEA-065A12C	A-A	12V	5.0A	60W	37
	Efficiency	MEA-090A12C	V-A		6.75A	81W	
	Level VI	MEA-065A15C	A-A	15V	4.33A	65W	
	• 2 × MOPP	MEA-090A15C	V-A		6.0A	90W	
		MEA-065A19C	A-A	19V	3.42A	65W	38
		MEA-090A19C	V-A		4.74A	90W	
		MEA-065A24C	A-A	24V	2.71A	65W	
		MEA-090A24C	V-A		3.75A	90W	
		MEA-250A24C	H-A		10.42A	250W	

MDS -	XXX		Α	S		00
Delta Medical Power Supply	Max power wattage in the product series. May be lower at some conditions.	Family Code	Product Type	No. of Output	Output Voltage	CC Code 1)
MDS-090AAS series	090 - 90W	A - Family A	A - Adapter	S - Single Output	15 - 15V 19 - 19V 24 - 24V	
MDS-090BAS series	090 - 90W	B - Family B			24 - 24V	
MDS-150AAS series	150 - 150W	A - Family A			12 - 12V 19 - 19V 24 - 24V	

			CC Code				
ME	A -	XXX	Α		С	□-	Α
Delta A - Adam Medical Power Supply	A - Adapter	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	Input Connector Type	Output Plug Spec	Output Plug Type
		065 - 65W		amily A 12 - 12V 15 - 15V 19 - 19V 24 - 24V	C - Class I C14	A - 5.5 x 2.5 x 10mm, 180°, 1.2m	A - Barrel type / Tuning Fork / DIN type ¹⁾
		090 - 90W				V - 5.5 x 2.5 x 11mm, 90°, 1.2m	
		250 - 250W		24 - 24V		H - 6 pins mini-fit, 180°, 1.5m	

¹⁾ Refer to technical datasheet





PRODUCT OVERVIEW

Delta provides high quality power supplies for various healthcare and medical applications. The products are produced in factories certified to medical Quality Management System ISO 13485. Designs are compliant to medical IEC 60601-1-2 Ed. 4 requirements and are suitable for Type BF medical products.



Enclosed

Encased in strong metal casing, the Medical Enclosed power supplies can be used in a wide variety of equipment for medical and industrial applications.



Open Frame

The Medical Open Frame provides high performance and reliable solution as an internal power supply for various types of medical equipment.



ATX

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.



Configurable

The MEG-A configurable power supply is designed for use in both medical and industrial applications. It supports up to 9 isolated output. The products can be configured for output voltages ranging from 2Vdc to 60Vdc.



Adapter

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

MEDICAL POWER SUPPLIES

| Enclosed Power Supply



MDS



- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Suitable for type BF medical product
- Remote on/off control
- Power Good signal
- Safety approvals for medical and IT applications









- 2 × MOPP isolation, Suitable for type BF medical products
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Intelligent fan speed control
- Safety approvals for medical and IT applications
- PMBus Ver 1.3 supported (selected models)



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B Conducted and Radiated EMI
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

Specifications

OUTPUT		MDS-200ADB12 AA	MDS-250ADB12 AD	MDS-300ADB12 AA	MDS-400ADB12 AA	MDS-300ADB18 A□			
Output Voltage		12V	12V	12V	12V	18V			
Output Current (Max	x)	9.17A (Convection) 16.67A (with 8.5CFM Forced Air)	12.5A (Convection) 20.84A (with 10CFM Forced Air)	15.83A (Convection) 25.0A (with 10CFM Forced Air)	33.33A (with 20CFM Forced Air)	10.55A (Convection) 16.66A (with 10CFM Forced Air)			
Output Power		110W (Convection) 200W (with 8.5CFM Forced Air)	150W (Convection) 250W (with 10CFM Forced Air)	190W (Convection) 300W (with 10CFM Forced Air)	400W (with 20CFM Forced Air)	190W (Convection) 300W (with 10CFM Forced Air)			
Load Regulation				± 1%					
Ripple & Noise		1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	150mV pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load			
INPUT									
Input Voltage Range	Э			90-264Vac					
Input Frequency				47-63Hz					
Efficiency	115Vac (60Hz)	91.0% typ.	89.45% typ	91.3% typ.	89.5% typ.	92.5% typ.			
Emolerity	230Vac (50Hz)	93.0% typ.	90.5% typ.	92.6% typ.	91.5% typ.	93.5% typ.			
Leakage Current 1)	264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC			
MECHANICAL									
Dimensions	mm	113.9 × 64.7 × 44.7	140 × 88.9 × 44.4	140 × 88.9 × 44.4	140 × 88.9 × 44.4	140 × 88.9 × 44.4			
(L×W×H)	inch	4.48 × 2.55 × 1.76	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75			
Unit Weight	kg	0.35	0.61	0.61	0.61	0.61			
Offic Weight	lb	0.76	1.35	1.35	1.35	1.35			
MTBF 2)		800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs	800,000 hrs			
EMC & Emissions			EN 550	11/EN 55032, FCC Title 47	: Class B				
ENVIRONMENT									
Operating Temperat	ture 3)			-10°C to +70°C					
Storage Temperatur	e e		-40°C to +85°C						
Operating Humidity			5 to 95% RH (Non-Condensing)						
Operating Altitude				0 to 5,000 m (0 to 16,400 ft	·)				
MEDICAL RATING									
Float Rating				BF					
MOPP				2 × MOPP					

Dimensions Reference

Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).

For MDS-400ADB12 A□, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 20CFM Forced Air, Ta: 35°C).

3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B Conducted and Radiated EMI
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

Specifications

OUTPUT		MDS-200ADB24 AA	MDS-250ADB24 AA	MDS-300ADB24 A□	MDS-400ADB24 A□	MDS-300ADB48 AD		
Output Voltage		24V	24V	24V	24V	48V		
Output Current (Max)		5.0A (Convection) 8.33A (with 5.5CFM Forced Air)	5.62A (Convection) 10.41A (with 10CFM Forced Air)	8.75A (Convection) 12.5A (with 10CFM Forced Air)	16.67A (with 16CFM Forced Air)	4.375A (Convection) 6.25A (with 10CFM Forced Air)		
Output Power		120W (Convection) 200W (with 5.5CFM Forced Air)	150W (Convection) 250W (with 10CFM Forced Air)	210W (Convection) 300W (with 10CFM Forced Air)	400W (with 16CFM Forced Air)	210W (Convection) 300W (with 10CFM Forced Air)		
Load Regulation				± 1%				
Ripple & Noise		1% typ. pk-pk Vrated @ full load						
INPUT								
Input Voltage Range	9			90-264Vac				
Input Frequency				47-63Hz				
Efficiency	115Vac (60Hz)	92.0% typ.	91.85% typ.	93.0% typ.	92.0% typ.	92.5% typ.		
Lindency	230Vac (50Hz)	93.0% typ.	92.98% typ.	94.0% typ.	93.0% typ.	93.5% typ.		
Leakage Current 1)	264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC		
MECHANICAL								
Dimensions	mm	113.9 × 64.7 × 44.7	140 × 88.9 × 44.4	140 × 88.9 × 44.4	140 × 88.9 × 44.4	140 × 88.9 × 44.4		
$(L \times W \times H)$	inch	4.48 × 2.55 × 1.76	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75	5.51 × 3.50 × 1.75		
Unit Weight	kg	0.35	0.61	0.61	0.61	0.61		
Unit Weight	lb	0.76	1.35	1.35	1.35	1.35		
MTBF ²⁾		800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs	800,000 hrs		
EMC & Emissions			EN 550	11/EN 55032, FCC Title 47	: Class B			
ENVIRONMENT								
Operating Temperat	ture 3)			-10°C to +70°C				
Storage Temperatur	е	-40°C to +85°C						
Operating Humidity		5 to 95% RH (Non-Condensing)						
Operating Altitude				0 to 5,000 m (0 to 16,400 ft	i)			
MEDICAL RATING								
Float Rating				BF				
MOPP				2 × MOPP				



Notes

- NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).
 For MDS-400ADB24 A□, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 10CFM Forced Air, Ta: 35°C).
 Refer power de-rating in the product datasheet.





- High Power Density
- 2 × MOPP Isolation
- Safety Approvals to IEC 60601-1 Ed. 2 & 3.1
- Suitable for Type BF Medical Products
- Full Power up to 50°C Ambient
- Class B Conducted and Radiated EMI

		NEW	NEW		
	MEB-500A24F AA	MEB-750A24D AAA	MEB-750A48□ AAA		
	24V	24V	48V		
()	21.0A	31.25A	15.63A		
	504W	750W	750W		
	< 150mV	< 2%	< 2%		
	< 300mVpp @ 0°C to +50°C	1% pk-pk Vrated @ rated load	1% pk-pk Vrated @ rated load		
;	90-264Vac	85-26	64Vac		
		47-63Hz			
230Vac (50Hz)	92.0% typ.	94.0% typ.	94.0% typ.		
264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: 0.3mA typ. @ NC, 1mA typ. @ SFC Output-PE: 0.1mA typ. @ NC, 0.5mA typ. @ SFC			
mm	165.3 × 85.2 × 41	177.8 × 101.6 × 40	177.8 × 101.6 × 40		
		7.00 × 4.00 × 1.58	7.00 × 4.00 × 1.58		
			1.10		
lb			2.40		
	> 700,000 hrs	> 500,000 hrs	> 500,000 hrs		
	EN 55011 & Compliant with EN 55032, FCC Title 47: Class B	EN 55011, EN 55032,	FCC Title 47: Class B		
ure 3)		-20°C to +70°C			
е	-30°C to +80°C	-40°C to	o +80°C		
	20 to 90% RH (Non-Condensing)	5 to 95% RH (N	on-Condensing)		
	IEC 60601-1: 0 to 3,000 m (0 to 9,840 ft) IEC 60950-1 & IEC 62368-1: 0 to 5,000 m (0 to 16,400 ft)				
		BF			
	2 × MOPP				
	230Vac (50Hz) 264Vac mm inch kg lb	24V (x) 21.0A 504W < 150mV < 300mVpp @ 0°C to +50°C 230Vac (50Hz) 92.0% typ. Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC mm 165.3 × 85.2 × 41 inch 6.50 × 3.35 × 1.61 kg 0.66 lb 1.46 > 700,000 hrs EN 55011 & Compliant with EN 55032, FCC Title 47: Class B ure 3) e -30°C to +80°C 20 to 90% RH (Non-Condensing) IEC 60601-1: 0 to 3,000 m (0 to 9,840 ft) IEC 60950-1 & IEC 62368-1: 0 to 5,000 m	MEB-500A24F AA 24V 24V 24V 24V 24V 24V 24V 25A 31.25A 504W 750W < 150mV < 2% 300mVpp @ 0°C to +50°C 1% pk-pk Vrated @ rated load 85-20 47-63Hz 230Vac (50Hz) 92.0% typ. 94.0% typ. 94.0% typ. 94.0% typ. Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC Output-PE: 0.1mA typ. @ Output-PE: 0.1mA		



- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332 (MEB-500A24F: I/P: 115Vac, O/P: 100% load, Ta: 25°C; MEB-750A24□, MEB-750A48□: I/P: 115Vac, O/P: 100% load, Ta: 35°C).

 3) Refer power de-rating in the product datasheet.

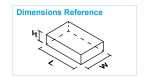


MEB

Features

- Up to 1200W in 5" × 8.03" × 1.59" package
- Full power from 90Vac to 264Vac, up to 50°C ambient
- Up to 500K hours MTBF
- 2 × MOPP isolation, Suitable for type BF medical products
- Current sharing and 5V/2A standby output
- Class B Conducted and Radiated EMI
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- PMBus Ver 1.3 supported
- Intelligent fan speed control

OUTPUT		MEB-1K2A24T ABA	MEB-1K2A42T ABA	MEB-1K2A48T ABA			
Output Voltage		24V	42V	48V			
Output Current (Ma	x)	50.0A	28.5A	25.0A			
Output Power		1200W	1200W	1200W			
Load Regulation		2%					
Ripple & Noise		1% typ. pk-pk Vrated @ rated load	1% typ. pk-pk Vrated @ rated load	1% typ. pk-pk Vrated @ rated load			
INPUT							
Input Voltage Range	е		85-264Vac				
Input Frequency			47-63Hz				
T#:-:	115Vac (60Hz)	90.0% typ.	90.9% typ.	91.5% typ.			
Efficiency	230Vac (50Hz)	93.0% typ.	93.2% typ.	94.0% typ.			
Leakage Current 1)	264Vac	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC			
MECHANICAL							
Dimensions	mm	204 × 127 × 40.5	204 × 127 × 40.5	204 × 127 × 40.5			
(L×W×H)		8.03 × 5.0 × 1.59	8.03 × 5.0 × 1.59	8.03 × 5.0 × 1.59			
Unit Weight		1.50	1.50	1.50			
	lb	3.30	3.30	3.30			
MTBF 2)		> 500,000 hrs	> 500,000 hrs	> 500,000 hrs			
EMC & Emissions			EN 55011/EN 55032, FCC Title 47: Class B				
ENVIRONMENT							
Operating Tempera	ture 3)		-20°C to +70°C				
Storage Temperatur	re		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)					
MEDICAL RATING							
Float Rating			BF				
MOPP			2 × MOPP				



- Notes

 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).
 3) Refer power de-rating in the product datasheet.

MEDICAL POWER SUPPLIES

Open Frame Power Supply



MDS



- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Power Good Signal, Remote Sense, Remote inhibit
- Safety approvals for medical and IT applications

MEU











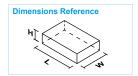
- Convection cooled
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Normal and Reversed Option for Remote On/Off and Power Good Signal
- Safety approvals for medical and IT applications



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

OUTPUT		MDS-040APS12B A	MDS-065APS12B A	MDS-100APS12B A	MDS-100BPS12B A		
Output Voltage		12V	12V	12V	12V		
Output Current (Max	×)	3.33A	5.42A	8.33A	6.67A (Convection) 8.33A (with 10CFM Forced Air)		
Output Power		40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)		
Load Regulation			=	± 1%			
Ripple & Noise		22.8mV pk-pk @ full load	21.6mV pk-pk @ full load	25mV pk-pk @ full load	76mV pk-pk @ full load		
INPUT							
Input Voltage Range	Э		90-	264Vac			
Input Frequency			47	'-63Hz			
Efficiency	115Vac 230Vac	86.5% typ.	87.5% typ.	89.2% typ.	87.0% typ.		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current 1)	264Vac	-	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC		
MECHANICAL							
Dimensions	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8		
(L×W×H)		3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25		
Unit Weight		0.08	0.13	0.21	0.15		
	lb	0.18	0.29	0.46	0.33		
MTBF 2)		3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperature 3)		-10°C to +70°C					
Storage Temperatur	e		-40°C	to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)	5 to 95% RH (5 to 95% RH (Non-Condensing) 10 to 95% RH (Non-Condensing)			
Operating Altitude			0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)		
MEDICAL RATING							
Float Rating				BF	_		
MOPP			2 ×	MOPP			



- Notes
 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332.
 3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B Conducted and Radiated EMI
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

Specifications

OUTPUT		MDS-200APB12 AA	MDS-250APB12 A□	MDS-300APB12 AA	MDS-400APB12 A□		
Output Voltage		12V	12V	12V	12V		
Output Current (Max	x)	10.83A (Convection) 16.67A (with 8.5CFM Forced Air)	12.5A (Convection) 20.84A (with 10CFM Forced Air)	18.33A (Convection) 25.0A (with 10CFM Forced Air)	16.67A (Convection) 33.33A (with 16CFM Forced Air)		
Output Power		130W (Convection) 200W (with 8.5CFM Forced Air)	150W (Convection) 250W (with 10CFM Forced Air)	220W (Convection) 300W (with 10CFM Forced Air)	200W (Convection) 400W (with 16CFM Forced Air)		
Load Regulation		± 2.5%		± 1%			
Ripple & Noise		1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	150mV pk-pkV rated @ full load		
INPUT							
Input Voltage Range	Э		90-26	64Vac			
Input Frequency			47-6	33Hz			
F#G-i	115Vac (60Hz)	91.0% typ.	89.45% typ.	91.3% typ.	89.5% typ.		
Efficiency 230Vac (50Hz)		93.0% typ.	90.5% typ.	92.6% typ.	91.5% typ.		
Leakage Current 1)	264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC		
MECHANICAL							
Dimensions	mm	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6	127.3 x 76.5 x 36.6		
(L×W×H)		4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44		
Unit Weight		0.20	0.41	0.41	0.41		
	lb	0.44	0.90	0.90	0.90		
MTBF ²⁾		800,000 hrs	500,000 hrs	500,000 hrs	500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperat	ture 3)		-10°C to	o +70°C			
Storage Temperature		-40°C to +85°C					
Operating Humidity			5 to 95% RH (N	on-Condensing)			
Operating Altitude			0 to 5,000 m ((0 to 16,400 ft)			
MEDICAL RATING							
Float Rating			В	F			
MOPP			2 × N	MOPP			

Dimensions Reference

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).

 For MDS-400APB12 A□, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 16CFM Forced Air, Ta: 35°C).

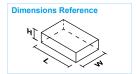
 3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

OUTPUT		MDS-040APS15B A	MDS-065APS15B A	MDS-100APS15B A	MDS-100BPS15B A		
Output Voltage		15V	15V	15V	15V		
Output Current (Max	x)	2.67A	4.2A	6.67A	5.3A (Convection) 6.7A (with 10CFM Forced Air)		
Output Power		40W	63W	100W	80W (Convection) 100W (with 10CFM Forced Air)		
Load Regulation			:	± 1%			
Ripple & Noise		16.4mV pk-pk @ full load	18mV pk-pk @ full load	35.2mV pk-pk @ full load	51.2mV pk-pk @ full load		
INPUT							
Input Voltage Range	Э		90-	264Vac			
Input Frequency			47	7-63Hz			
Efficiency	115Vac 230Vac	87.2% typ.	89.2% typ.	90.6% typ.	88.2% typ.		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current 1)	264Vac	-	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC		
MECHANICAL							
Dimensions	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8		
(L×W×H)		3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25		
Unit Weight		0.08	0.13	0.21	0.15		
	lb	0.18	0.29	0.46	0.33		
MTBF ²⁾		3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperat	ture 3)	-10°C to +70°C					
Storage Temperatur	е		-40°C	to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)	5 to 95% RH	5 to 95% RH (Non-Condensing) 10 to 95% RH (Non-Condensing)			
Operating Altitude			0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)		
MEDICAL RATING							
Float Rating				BF			
MOPP			2 ×	MOPP			



- NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332.
 Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Power Good signal, Remote Sense, Remote Inhibit (only MDS-300APB18 A□)
- 2 × MOPP isolation

Specifications

OUTPUT		MDS-040APS18B A	MDS-065APS18B A	MDS-100APS18B A	MDS-100BPS18B A	MDS-300APB18 A□		
Output Voltage		18V	18V	18V	18V	18V		
Output Current (Max	×)	2.22A	3.61A	5.55A	4.4A (Convection) 5.5A (with 10CFM Forced Air)	12.22A (Convection) 16.66A (with 10CFM Forced Air)		
Output Power		40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)	220W (Convection) 300W (with 10CFM Forced Air)		
Load Regulation				± 1%				
Ripple & Noise		14.8mV pk-pk @ full load	20.8mV pk-pk @ full load	28.8mV pk-pk @ full load	88mV pk-pk @ full load	1% typ. pk-pk Vrated @ full load		
INPUT								
Input Voltage Range	Э			90-264Vac				
Input Frequency				47-63Hz				
Efficiency	115Vac 230Vac	86.9% typ.	87.7% typ.	91.24% typ.	87.6% typ.	92.5% typ. 93.5% typ.		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	-		
Leakage Current 1)	264Vac	-	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC < 0.5mA @ SFC		
MECHANICAL								
Dimensions	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8	127.3 × 76.5 × 36.6		
L×W×H)	inch	3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25	5.01 × 3.01 × 1.44		
Unit Weight	kg		0.13	0.21	0.15	0.41		
	lb		0.29	0.46	0.33	0.90		
MTBF 2)		3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs	800,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B						
ENVIRONMENT								
Operating Temperature 3)				-10°C to +70°C				
Storage Temperature				-40°C to +85°C				
Operating Humidity		10 to 95% RH (Non-Condensing)	5 to 95% RH (l	Non-Condensing)	10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)		
Operating Altitude			0 to 3,000 m (0 to 9,840 f	t)	0 to 5,000 m	(0 to 16,400 ft)		
MEDICAL RATING								
Float Rating				BF				
MOPP				2 × MOPP				

Dimensions Reference

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332.
 For MDS-300APB18 A□, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).

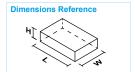
 3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

OUTPUT		MDS-040APS24B A	MDS-065APS24B A	MDS-100APS24B A	MDS-100BPS24B A		
Output Voltage		24V	24V	24V	24V		
Output Current (Max)		1.67A	2.71A	4.17A	3.3A (Convection) 4.2A (with 10CFM Forced Air)		
Output Power		40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)		
Load Regulation			:	± 1%			
Ripple & Noise		34mV pk-pk @ full load	32.8mV pk-pk @ full load	55.2 mV pk-pk @ full load	58.4mV pk-pk @ full load		
INPUT							
Input Voltage Range	Э		90-	264Vac			
Input Frequency			47	'-63Hz			
Efficiency	115Vac 230Vac	86.3% typ.	88.4% typ.	91.08% typ.	89.3% typ.		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current 1)	264Vac	-	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC		
MECHANICAL							
Dimensions	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8		
$(L \times W \times H)$	inch	3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25		
Unit Weight	kg	0.08	0.13	0.21	0.15		
Offic Worgine	lb	0.18	0.29	0.46	0.33		
MTBF ²⁾		3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperature 3)		-10°C to +70°C					
Storage Temperature			-40°C	to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing) 10 to 95% RH (Non-Condensing)				
Operating Altitude			0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)		
MEDICAL RATING							
Float Rating				BF	_		
MOPP			2 ×	MOPP			



- Notes
 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332.
 3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

Specifications

OUTPUT		MDS-200APB24 AA	MDS-250APB24 A□	MDS-300APB24 A□	MDS-400APB24 A□		
Output Voltage		24V	24V	24V	24V		
Output Current (Max)		5.83A (Convection) 8.33A (with 5.5CFM Forced Air)	6.25A (Convection) 10.41A (with 10CFM Forced Air)	10.0A (Convection) 12.5A (with 10CFM Forced Air)	16.66A (with 10CFM Forced Air)		
Output Power		140W (Convection) 200W (with 5.5CFM Forced Air)	150W (Convection) 250W (with 10CFM Forced Air)	240W (Convection) 300W (with 10CFM Forced Air)	400W (with 10CFM Forced Air)		
Load Regulation		± 2.5%		± 1%			
Ripple & Noise		1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load		
INPUT							
Input Voltage Range	е		90-26	64Vac			
Input Frequency			47-6	33Hz			
F#G-i	115Vac (60Hz)	92.0% typ.	91.85% typ.	93.0% typ.	92.0% typ.		
Efficiency	230Vac (50Hz)	93.0% typ.	92.98% typ.	94.0% typ.	93.0% typ.		
Leakage Current 1)	264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC		
MECHANICAL							
Dimensions	mm	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6	127.3 x 76.5 x 36.6		
$(L \times W \times H)$		4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44		
Unit Weight		0.20	0.41	0.41	0.41		
	lb	0.44	0.90	0.90	0.90		
MTBF 2)		800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperat	ture 3)		-10°C t	o +70°C			
Storage Temperature			-40°C t	o +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude			0 to 5,000 m ((0 to 16,400 ft)			
MEDICAL RATING							
Float Rating			Е	3F			
MOPP			2 × N	МОРР			

Dimensions Reference

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).

 For MDS-400APB24 A□, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 10CFM Forced Air, Ta: 35°C).

 3) Refer power de-rating in the product datasheet.

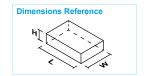




Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

OUTPUT		MDS-200APB36 AA	MDS-300APB48 A□			
Output Voltage		36V	48V			
Output Current (Ma	x)	3.33A (Convection) 5.56A (with 5.5CFM Forced Air)	5.0A (Convection) 6.25A (with 10CFM Forced Air)			
Output Power		120W (Convection) 200W (with 5.5CFM Forced Air)	240W (Convection) 300W (with 10CFM Forced Air)			
Load Regulation		± 2.5%	± 1%			
Ripple & Noise		1% typ. pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load			
INPUT						
Input Voltage Range	е	90-2	64Vac			
Input Frequency		47-	63Hz			
Efficiency	115Vac (60Hz)	91.5% typ.	92.5% typ.			
Elliciericy	230Vac (50Hz)	94.0% typ.	93.5% typ.			
Leakage Current 1)	264Vac	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC			
MECHANICAL						
Dimensions		101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6			
(L × W × H)		4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44			
Unit Weight		0.20 0.44	0.41			
MTBF ²⁾	ID	800,000 hrs	800,000 hrs			
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B				
ENVIRONMENT			1 CO TRIC 17. CIACO D			
Operating Temperature 3)		-10°C to +70°C				
Storage Temperature		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing)				
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)				
MEDICAL RATING						
Float Rating		E	3F			
MOPP		2 × 1	MOPP			
		2				



- Notes

 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).
 3) Refer power de-rating in the product datasheet.



Features

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- High MTBF
- 2 × MOPP isolation
- Remote sense

OUTPUT		MDS-400AUS19B A	MDS-400AUS24B A	MDS-400AUS30B A		
Output Voltage		19V	24V	30V		
Output Current (Ma	x)	15.8A (Convection) 21.1A (with 200LFM Forced Air)	12.5A (Convection) 16.67A (with 200LFM Forced Air)	11.67A (Convection) 13.33A (with 200LFM Forced Air)		
Output Power		300W (Convection) 400W (with 200LFM Forced Air)	300W (Convection) 400W (with 200LFM Forced Air)	350W (Convection) 400W (with 200LFM Forced Air)		
Load Regulation			± 2%			
Ripple & Noise		±1% pk-pk @ full load	±1% pk-pk @ full load	±1.5% pk-pk @ full load		
INPUT						
Input Voltage Range	Э		90-264Vac			
Input Frequency			47-63Hz			
Efficiency 115Vac 230Vac		91.38% typ.	91.94% typ.	92.51% typ.		
Leakage Current 1)	240Vac	< 0.1mA @ NC	< 0.1mA @ NC	< 0.1mA @ NC		
Leakage Current	264Vac	< 0.3mA @ SFC	< 0.3mA @ SFC	< 0.3mA @ SFC		
MECHANICAL						
Dimensions	mm		198 × 97 × 41.5	198 × 97 × 41.5		
(L×W×H)		7.80 × 3.82 × 1.63	7.80 × 3.82 × 1.63	7.80 × 3.82 × 1.63		
Unit Weight		0.91	0.91	0.91		
	lb		2.01	2.01		
MTBF ²⁾		2,000,000 hrs	2,000,000 hrs	500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B				
ENVIRONMENT						
Operating Temperat	ture 3)	-10°C to +70°C				
Storage Temperature		-40°C to +85°C				
Operating Humidity		10 to 95% RH (Non-Condensing)				
Operating Altitude		0 to 3,000) m (0 to 9,840 ft)	0 to 5,000 m (0 to 16,400 ft)		
MEDICAL RATING						
Float Rating			В			
MOPP			2 × MOPP			



- NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332.
 Refer power de-rating in the product datasheet.



MEU

Features

- Convection cooled
- Full Power up to 50°C Ambient
- 2 × MOPP isolation
- Suitable for type BF medical products
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- PMBus Ver 1.3 supported (for MEU-600C□T)
- Up to 500Khrs MTBF
- Normal and Reversed Option for Remote On/Off and Power Good Signal

			NEW				
OUTPUT		MEU-600C24T AAA	MEU-650A24T AAA	MEU-600C48T AAA			
Output Voltage		24V	24V	48V			
Output Current (Ma	x)	25.0A	18.75A (Convection) 27.08A (with 6.9CFM Forced Air)	12.5A			
Output Power		600W	450W (Convection) 650W (with 6.9CFM Forced Air)	600W			
Load Regulation		2%	1%	2%			
Ripple & Noise		1% typ. pk-pk Vrated @ rated load	1% max. pk-pk Vrated @ rated load (Convection)	1% typ. pk-pk Vrated @ rated load			
INPUT							
Input Voltage Range	е		85-264Vac				
Input Frequency			47-63Hz				
115Vac (60Hz)		92.5% typ.	93.5% typ.	94.0% typ.			
Efficiency	230Vac (50Hz)	94.0% typ.	94.5% typ.	95.0% typ.			
Leakage Current 1)	264Vac	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	Input-PE: < 0.3mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC			
MECHANICAL							
Dimensions	mm	203.2 × 127 × 40	152.4 × 101.6 × 40	203.2 × 127 × 40			
(L×W×H)		8.00 × 5.00 × 1.57	6.00 × 4.00 × 1.57	8.00 × 5.00 × 1.57			
Unit Weight		1.30	0.75	1.30			
	lb	2.87	1.65	2.87			
MTBF ²⁾		500,000 hrs	500,000 hrs	500,000 hrs			
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Tempera	iture 3)	-20°C to +70°C					
Storage Temperature		-40°C to +85°C					
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude			0 to 5,000 m (0 to 16,400 ft)				
MEDICAL RATING							
Float Rating			BF				
MOPP			2 × MOPP				



- Notes
 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332.
 3) Refer power de-rating in the product datasheet.

MEDICAL POWER SUPPLIES

ATX Power Supply



MDS



- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Suitable for type BF patient access applications
- ATX 12V standard function & form factor
- Maximum output power of 350 watts
- Built-in active PFC
- Safety approvals for medical and IT applications

ATX Power Supply ATX Multiple Output

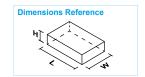


MDS

Features

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Suitable for type BF patient access applications
- ATX 12V standard function & form factor
- Maximum output power of 350 watts
- Built-in active PFC

OUTPUT		MDS-350AD701	IDS-350AD701					
Output Voltage		+3.3V	+3.3V +5V +5V _{SB}			+12V ₂	-12V	-5V
Output Current (Nor	n)	8.0A	9.0A	1.25A	8.0A	8.0A	0.25A	0.1A
Output Power					350W			
Load Regulation				± 5%			±	: 10%
Ripple & Noise		< 50mVpp	< 50mVpp	< 150mVpp	< 120mVpp	< 120mVpp	< 120mVpp	< 50mVpp
INPUT								
Input Voltage Range	Э	90-264Vac						
Input Frequency		47-63Hz						
Efficiency	115Vac (60Hz)	82% typ.						
Efficiency	230Vac (50Hz)	85% typ.						
Leakage Current 1)		< 0.1mA @ NC, < 0.3mA @ SFC						
MECHANICAL								
Dimensions	mm	194 × 100 × 40.5						
(L×W×H)		7.64 × 3.94 × 1.5	9					
Unit Weight	kg	1.20						
14TD = 3)	Ib	2.65						
MTBF ²⁾		500,000 hrs						
EMC & Emissions		EN 55011/EN 550	032, FCC Title 47: C	class B				
ENVIRONMENT	0)							
Operating Temperature 3)		0°C to +50°C						
Storage Temperature		-40°C to +85°C						
Operating Humidity		5 to 95% RH (Non-Condensing)						
Operating Altitude 0 to 5,0		0 to 5,000 m (0 to	16,400 ft)					
MEDICAL RATING								
Float Rating		BF						
MOPP		2 × MOPP						



- 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).
 3) Refer power de-rating in the product datasheet.

MEDICAL POWER SUPPLIES

Configurable Power Supply

MEG-A





- 2 × MOPP isolation
- Output selectable from 2Vdc to 60Vdc
- Normal and Reversed Option for Global Remote On/Off
- Analog and Digital Voltage Trimming (except 700W)
- PMBus Ver 1.3 Supported (selected models)
- Safety approvals for medical and IT applications

MEG-A





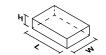
- 2 × MOPP isolation
- Output selectable from 2Vdc to 60Vdc
- Analog Voltage Trimming
- 3 Slots Modules Configurable
- Current sharing for single slot modules
- Compliant with IEC 60601-1-2 Ed. 4 requirements



Specifications

		NEW .			
OUTPUT		MEG-700A3			
Output Slots		3 Slots			
Output Power		700W			
Line Regulation		± 0.5%			
Load Regulation		±1%			
Ripple & Noise		< 1% pk-pk Vrated or 100mV, which is larger			
Hold-up Time		12ms @ rated load, with nominal input range			
Dynamic Response	;	± 5% @ with 50-100% load change			
Remote Sense		Up to 500mV compensation for voltage drop across			
OUTPUT MODULE					
Output Numbers		Single Output / Dual Output			
0 1 11/11		Single Output: Single Slot: 2V-60V; Triple Slot: 8V-60V			
Output Voltage		Dual Output: Single Slot: 3.3-30V			
0 1 1 1 1 1 1 1 1	`	Single Output: Single Slot: 300W; Triple Slot: 700W			
Output Power (Max	()	<u>Dual Output:</u> Single Slot: 180W			
INPUT					
Input Voltage Range		90-264Vac			
Input Frequency		47-63Hz			
Input Current		< 8.5A			
Input Surge Voltage	e (Max)	300Vac for 100ms			
Efficiency	115Vac	91.0%			
,	230Vac	93.0%			
Inrush Current (Cold Start)	230Vac	40A			
Power Factor	115Vac 230Vac	> 0.95 @ full load			
Patient Leakage Cu		< 0.1mA @ NC, < 0.5mA @ SFC			
Earth Leakage Curi		< 0.3mA @ NC, < 1mA @ SFC			
MECHANICAL					
Dimensions	mm	215 × 88.9 × 41.5			
(L × W × H)		8.50 × 3.50 × 1.63			
,		0.80			
Unit Weight		1.76			
MTBF ²⁾		500,000 hrs			
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B			
ENVIRONMENT					
Operating Temperature 3)		-20°C to +70°C			
Storage Temperatu		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			
MEDICAL RATING					
Float Rating		В			
MOPP		2 × MOPP			

Dimensions Reference



- NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332 (I/P: 160Vac, Ta: 35°C).
 Refer power de-rating in the product datasheet.

MEG-A



Features

- Compact size and High Power Density
- 2 × MOPP isolation
- Output selectable from 2Vdc to 60Vdc
- Analog and Digital Voltage Trimming
- PMBus Ver 1.3 Supported
- Optional RS485/RS232/USB Communication Adapters
- PC GUI for easy parameter setting and monitoring
- Compliant with IEC 60601-1-2 Ed. 4 requirements

Specifications

				NEW			
OUTPUT		MEG-1K2A4	MEG-2K1A6	MEG-3K0A9			
Output Slots		4 Slots	6 Slots	9 Slots			
Output Power		1,200W	2,100W	3,000W			
Line Regulation			± 0.5%				
Load Regulation			± 1%				
Ripple & Noise			< 1% pk-pk Vrated or 100mV, which is I				
Hold-up Time		12ms @ 115Vac	12ms @ 115Vac	12ms @ rated load, with nominal input range			
Dynamic Respons	e		± 5% @ with 50-100% load change)			
Remote Sense			Up to 500mV compensation for voltage dro	p across			
OUTPUT MODUL	E						
Output Numbers			Single Output / Dual Output				
D / - b			Single Output: Single Slot: 2V-60V; Triple Slo	ot: 8V-60V			
Output Voltage			Dual Output: Single Slot: 3.3V-30V				
Output Power (Ma	v)		Single Output: Single Slot: 300W; Triple Slo	t: 1200W			
Julpul Power (Ivia	(X)		<u>Dual Output:</u> Single Slot: 240W				
INPUT							
nput Voltage Ran	ge	90-264Vac					
Input Frequency		47-63Hz					
nput Current		< 8.5A	< 15A	< 20A			
nput Surge Voltag	ge (Max)	300Vac for 100ms	300Vac for 100ms	300Vac for 100ms			
Efficiency	115Vac	90.0%	90.0%	90.0%			
	230Vac	93.0%	93.0%	93.0%			
nrush Current Cold Start)	230Vac	40A	40A	40A			
Power Factor	115Vac 230Vac	> 0.95 @ full load	> 0.95 @ full load	> 0.95 @ full load			
Patient Leakage C	Current 1)	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC			
Earth Leakage Cu		< 0.3mA @ NC, < 1mA @ SFC	< 0.3mA @ NC, < 1mA @ SFC	< 0.4mA @ NC, < 1mA @ SFC			
MECHANICAL							
Dimensions	mm	254 × 88.9 × 40.5	254 × 127 × 40.5	254 × 181 × 40.5			
L × W × H)		10.00 × 3.50 × 1.59	10.00 × 5.00 × 1.59	10.00 × 7.13 × 1.59			
	kg	1.30	2.00	2.50			
I Init Weight		2.86	4.41	5.51			
MTBF 2)		500,000 hrs	500,000 hrs	500,000 hrs			
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
NVIRONMENT							
Operating Temperature 3)		-20°C to +70°C					
Storage Temperature		-40°C to +85°C					
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude			0 to 5,000 m (0 to 16,400 ft)				
Operating Altitude							
	G						
Operating Altitude MEDICAL RATING Float Rating	G		В				

Dimensions Reference



- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332 (MEG-1K2A4: I/P: 150Vac, O/P: 1,200W, Ta: 35°C; MEG-2K1A6: I/P: 150Vac, O/P: 1,800W, Ta: 35°C; MEG-3K0A9: I/P: 180Vac, Ta: 35°C)

 3) Refer power de-rating in the product datasheet.



MEDICAL POWER SUPPLIES

Adapter



MDS



- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Safety approvals for medical and IT applications



MEA



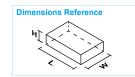
- Compact Size and High Power Density
- High Efficiency meet DoE VI
- 2 × MOPP isolation
- High MTBF
- Safety approvals for medical and IT applications



Features

- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- IP22 Ingress Protection Rating
- 2 × MOPP isolation

OUTPUT		MDS-005AAS05 A□	MDS-005AAS05 B□	MDS-005AAS05 C□	MDS-030AAC05 A□		
Output Voltage		5V	5V	5V	5V		
Output Current (Max)		1.0A	1.0A	1.0A	3.0A		
Output Power		5W	5W	5W	15W		
Load Regulation		± 9%	± 9%	± 9%	± 5%		
Ripple & Noise		88mV pk-pk @ full load	88mV pk-pk @ full load	88mV pk-pk @ full load	< 100mV pk-pk @ rated load		
INPUT							
Input Voltage Range		90-264Vac			85-264Vac		
Input Frequency							
Average Efficiency	115Vac 230Vac	73.63%	73.63%	73.63%	81.4%		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current 1)	264Vac	-	-	-	< 0.1mA @ NC, < 0.5mA @ SFC		
MECHANICAL							
Dimensions (L × W × H)	mm	56.5 × 39.5 × 28	56.5 × 39.5 × 28	56.5 × 39.5 × 28	88 × 53.5 × 27.5		
		2.22 × 1.56 × 1.10	2.22 × 1.56 × 1.10	2.22 × 1.56 × 1.10	3.46 × 2.11 × 1.08		
Unit Weight		0.10	0.10	0.10	0.15		
Connector Type		MDS-005AAS05 A□: Input: Wall mount – CN; Output: A⊻: Barrel type; AU: Micro USB MDS-005AAS05 B□: Input: Wall mount – US; Output: B⊻: Barrel type; BU: Micro USB MDS-005AAS05 C□: Input: Wall mount – EU; Output: C⊻: Barrel type; CU: Micro USB MDS-030AAC05 AA: Input: Wall mount – CN; Output: Barrel type MDS-030AAC05 AB: Input: Wall mount – US; Output: Barrel type MDS-030AAC05 AC: Input: Wall mount – EU; Output: Barrel type					
MTBF ²⁾		1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperature 3)		0°C to +40°C					
Storage Temperature		-40°C to +85°C					
Operating Humidity		5 to 95% RH (Non-Condensing)					
Operating Altitude		0 to 3,000 m (0 to 9,840 ft) 0 to 5,000 m (0 to					
Degree of Protection							
Protection Against Shock		Class II					
MEDICAL RATING							
Float Rating		BF					
MOPP		2 × MOPP					



- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

 3) Refer power de-rating in the product datasheet.



Features

- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation

Specifications

OUTPUT		MDS-030AAC12 □□	MDS-060BAS12 AB	MDS-080AAS12 AB	MDS-150AAS12 BA		
Output Voltage		12V	12V	12V	12V		
Output Current (Max)		2.0A	5.0A	6.67A	10.0A		
Output Power		24W	60W	80W	120W		
Load Regulation		± 5%	5% ± 4.5%				
Ripple & Noise		< 150mV pk-pk @ rated load	1% typ. pk-pk @ full load	118.4mV pk-pk @ full load	104mV pk-pk @ full load		
INPUT							
Input Voltage Range		85-264Vac 90-264Vac					
Input Frequency		47-63Hz					
Average Efficiency	115Vac 230Vac	86.21%	88.0%	83% typ.	88.0% 87.0%		
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.5mA @ SFC	-	-	-		
MECHANICAL							
Dimensions	mm	88 × 53.5 × 27.5	135 × 62 × 34.1	150 × 75 × 40	170 × 85 × 40		
$(L \times W \times H)$	inch	3.46 × 2.11 × 1.08	5.31 × 2.44 × 1.34	5.91 × 2.95 × 1.57	6.69 × 3.35 × 1.57		
Unit Weight		0.15	0.34	0.50	1.10		
3	lb	0.33	0.78	1.10	2.43		
Connector Type		MDS-030AAC12 AA: Input: Wall mount – CN; Output: Barrel type MDS-030AAC12 AB: Input: Wall mount – US; Output: Barrel type MDS-030AAC12 BB: Input: Wall mount – US; Output: Barrel type MDS-060BAS12 AB, MDS-080AAS12 AB: Input: C8 socket; Output: 4-pin DIN MDS-150AAS12 BA: Input: C14 socket; Output: 4-pin DIN					
MTBF 2)		500,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B					
ENVIRONMENT							
Operating Temperature 3)		0°C to +40°C					
Storage Temperature		-40°C to +85°C					
Operating Humidity		5 to 95% RH (Non-Condensing) 10 to 95% RH			Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			0 to 3,000 m (0 to 9,840 ft)		
Degree of Protection		IP22			-		
Protection Against Shock		Class II			Class II with functional earth		
MEDICAL RATING							
Float Rating		BF			В		
MOPP		2 × MOPP					



Notes

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332.
 For MDS-030AAC12 □□, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

 3) Refer power de-rating in the product datasheet.

MDS



- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation



Specifications

OUTPUT		MDS-030AAC15 A□	MDS-090AAS15 B□	MDS-090AAS15 F□								
Output Voltage		15V	15V	15V								
Output Current (Max	x)	2.0A	6.0A	6.0A								
Output Power		30W	90W	90W								
Load Regulation		± 5%	± 4	.5%								
Ripple & Noise		< 200mV pk-pk @ rated load	114mV pk-pk @ full load	114mV pk-pk @ full load								
INPUT												
Input Voltage Range	Э	85-264Vac	90-20	64Vac								
Input Frequency		47-63Hz										
Average Efficiency	115Vac 230Vac	87.0%	88.0%	88.0%								
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC								
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC								
MECHANICAL												
Dimensions	mm	88 × 53.5 × 27.5	150 × 60 × 35	150 × 60 × 35								
$(L \times W \times H)$		3.46 × 2.11 × 1.08	5.91 × 2.36 × 1.38	5.91 × 2.36 × 1.38								
Unit Weight		0.15	0.45	0.45								
O' Troigin	lb	0.33	0.99	0.99								
Connector Type		MDS-030 MDS-030 MDS-090AAS15	NAC15 AA: Input: Wall mount – CN; Output: NAC15 AB: Input: Wall mount – US; Output: NAC15 AC: Input: Wall mount – EU; Output: BA, MDS-090AAS15 FA: Input: C14 socket; MDS-090AAS15 FE: Input: C14 socket; Ou	Barrel type Barrel type Output: 4-pin DIN								
MTBF 2)		500,000 hrs	1,000,000 hrs	1,000,000 hrs								
EMC & Emissions			EN 55011/EN 55032, FCC Title 47: Class B									
ENVIRONMENT												
Operating Temperat	ure 3)		0°C to +40°C									
Storage Temperatur	e		-40°C to +85°C									
Operating Humidity		5 to 95% RH (Non-Condensing)	10 to 95% RH (I	Non-Condensing)								
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	0 to 3,000 m	(0 to 9,840 ft)								
Degree of Protection	n	IP22		-								
Protection Against S	Shock	Class II	Class II with functional earth	Class I								
MEDICAL RATING												
Float Rating		I	BF	В								
MOPP			2 × MOPP									

Dimensions Reference

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332.
 For MDS-030AAC15 A□, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

 3) Refer power de-rating in the product datasheet.





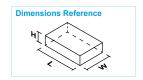


- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF



Specifications

OUTPUT		MDS-060BAS19 AA	MDS-090AAS19 B□	MDS-090AAS19 F□	MDS-150AAS19 BA	MDS-150AAS19 FA	MDS-150CAB19 AA					
Output Voltage		19V	19V	19V	19V	19V	19V					
Output Current (Max	x)	3.15A	4.73A	4.73A	7.89A	7.89A	7.9A					
Output Power		60W	90W	90W	150W	150W	150W					
Load Regulation		± 5%		± 4.5% ± 5%								
Dinala 0 Naina		1% typ. pk-pk	91.2mV pk-pk	91.2mV pk-pk	94.4mV pk-pk	94.4mV pk-pk	109mV pk-pk					
Ripple & Noise		@ full load	@ full load	@ full load	@ full load	@ full load	@ full load					
INPUT												
Input Voltage Range	Э			90-20	64Vac							
Input Frequency				47-6	63Hz							
Average	115Vac	88.0%	88.0%	88.0%	88.0%	88.0%	92.0% typ.					
Efficiency	230Vac	87.0%	-	-	00.070	00.070	92.0% typ.					
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC					
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC					
MECHANICAL												
Dimensions	mm	135 × 62 × 34.1	150 × 60 × 35	150 × 60 × 35	170 × 85 × 40	170 × 85 × 40	150 × 65 × 32					
$(L \times W \times H)$	inch	5.31 × 2.44 × 1.34	5.91 × 2.36 × 1.38	5.91 × 2.36 × 1.38	6.69 × 3.35 × 1.57	6.69 × 3.35 × 1.57	5.91 × 2.56 × 1.26					
Unit Weight	kg	0.34	0.45	0.45	1.10	1.10	0.52					
Unit Weight	lb	0.75	0.99	0.99	2.43	2.43	1.15					
Connector Type			MDS-090AAS19 MDS-090AAS19 BE MDS-150AAS19	BA, MDS-090AAS19 I , MDS-090AAS19 FE: BBA, MDS-150AAS19F	socket; Output: Tuning FA: Input: C14 socket; (Input: C14 socket; Outp FA: Input: C14 socket; (C6 socket; Output: 4-pi	Output: 4-pin DIN put: Tuning Fork type Output: 4-pin DIN						
MTBF 2)		1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	2,100,000 hrs					
EMC & Emissions		, ,	, ,	EN 55011/EN 55032,	FCC Title 47: Class B	, ,	, ,					
ENVIRONMENT												
Operating Temperat	ure 3)			0°C to	+40°C							
Storage Temperatur					o +85°C							
Operating Humidity		5 to 95% RH (Non-Condensing)			95% RH (Non-Conder	nsing)						
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		0 to 3,000 m	(0 to 9,840 ft)	0 to 5,000 m (0 to 16,400 ft)						
Degree of Protection	n	IP22			-		IP22					
Protection Against S	Shock	Class II	Class II with functional earth	Class I	Class II with functional earth	Cla	ss I					
MEDICAL RATING												
Float Rating		Е	F			В						
MOPP				2 × N	ЛОРР							



- Notes
 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332.
 3) Refer power de-rating in the product datasheet.

MDS





- Over-Voltage/Load/Temperature & Short Circuit **Protections**
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF



Specifications

OUTPUT		MDS-030AAC24 A□	MDS-060BAS24 AA	MDS-090AAS24 B□	MDS-090AAS24 F□								
Output Voltage		24V	24V	24V	24V								
Output Current (Max	x)	1.25A	2.5A	3.75A	3.75A								
Output Power		30W	60W	90W	90W								
Load Regulation		± 5%	± 5%	± 4.5%	± 4.5%								
Ripple & Noise		< 200mV pk-pk @ rated load	1% typ. pk-pk @ full load	94.4mV pk-pk @ full load	94.4mV pk-pk @ full load								
INPUT													
Input Voltage Range	Э	85-264Vac		90-264Vac									
Input Frequency		47-63Hz											
Average	115Vac	87.0%	87.0%	88.0%	88.0%								
Efficiency	230Vac	67.0%	87.0%	-	-								
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC								
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.5mA @ SFC	-	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC								
MECHANICAL													
Dimensions	mm	88 × 53.5 × 27.5	135 × 62 × 34.1	150 × 60 × 35	150 × 60 × 35								
(L×W×H)	inch	3.46 × 2.11 × 1.08	5.31 × 2.44 × 1.34	5.91 × 2.36 × 1.38	5.91 × 2.36 × 1.38								
Unit Weight	kg	0.15	0.34	0.45	0.45								
Offic vveignt	lb	0.33	0.75	0.99	0.99								
Connector Type			MDS-030AAC24 AC: Input: Wa MDS-060BAS24 AA: Input: 090AAS24 BA, MDS-090AAS24	Il mount – CN; Output: Barrel type Il mount – EU; Output: Barrel type C8 socket; Output: 3-pin DIN FA: Input: C14 socket; Output: 4- Input: C14 socket; Output: Tunin	e pin DIN								
MTBF 2)		500,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs								
EMC & Emissions				, FCC Title 47: Class B	, , , , , , , , , , , , , , , , , , , ,								
ENVIRONMENT				,									
Operating Temperat	ture 3)		0°C to	o +40°C									
Storage Temperatur				to +85°C									
Operating Humidity				Non-Condensing)									
Operating Altitude		0 to 5,000 m (0 to 16,400 ft) 0 to 3,000 m (0 to 9,840 ft)											
Degree of Protection													
Protection Against S		Cla	iss II	Class II with functional earth	Class I								
MEDICAL RATING				<u></u>									
Float Rating			BF		В								
MOPP		2 × MOPP											

Dimensions Reference

Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332.
For MDS-030AAC24 A□, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

3) Refer power de-rating in the product datasheet.





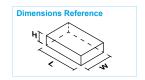
MDS

Features

- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF

Specifications

Output Voltage 24V 24V 24V Output Current (Max) 3.75A 6.25A 6.25A Output Power 90W 150W 150W Load Regulation \$\frac{4}{2}.5\% \$\frac{8}{2}.5\% Ripple & Noise 107.2mV pk-pk @ full load 83.2mV pk-pk @ full load 83.2mV pk-pk @ full load Input Trequency 90-284Vac \$\frac{7}{2}.5\% \$\frac{8}{2}.5\% \$\frac{8}{2}.5\% Average 115Vac Efficiency 230Vac \$\frac{7}{2}.5\% \$\frac{8}{2}.0\% \$\frac{8}.0\%	OUTPUT		MDS-090BAS24 AB	MDS-150AAS24 B□	MDS-150AAS24 FA						
Dutput Power	Output Voltage		24V	24V	24V						
Load Regulation £ 4.5%	Output Current (Max	x)	3.75A	6.25A	6.25A						
Ripple & Noise 107.2mV pk-pk @ full load 83.2mV pk-pk @ full load 80.264Vac	Output Power		90W	150W	150W						
Input Voltage Range	Load Regulation		± 4.5%								
Input Voltage Range	Ripple & Noise		107.2mV pk-pk @ full load	83.2mV pk-pk @ full load	83.2mV pk-pk @ full load						
Input Frequency	INPUT										
Average Efficiency 230 Vac 230 Vac 230 Vac 230 Vac 264 Vac 230 Vac 264 Vac 2	Input Voltage Range	Э		90-264Vac							
Efficiency	Input Frequency			47-63Hz							
St.0% St.0	Average	115Vac	97 619/ @ full load	88.0%	88.0%						
Leakage Current 1	Efficiency	230Vac	87.81% @ Iuli load	87.0%	87.0%						
MECHANICAL Dimensions (L × W × H) mm 150 × 75 × 40 170 × 85 × 40 170 × 85 × 40 (L × W × H) inch 5.91 × 2.95 × 1.57 6.69 × 3.35 × 1.57 6.69 × 3.35 × 1.57 Unit Weight kg 0.50 1.10 1.10 Connector Type MDS-090BAS24 AB; Input: C8 socket; Output: 4-pin DIN MDS-150AAS24 BB; Input: C14 socket; Output: 4-pin DIN MDS-150AAS24 BB; Input: C14 socket; Output: Tuning Fork type MTBF ²) 1,000,000 hrs 1,000,000 hrs 1,000,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT 0°C to +40°C Operating Temperature ³) 0°C to +40°C Storage Temperature -40°C to +85°C Operating Altitude 0 to 5,000 m (0 to 16,400 ft) 0 to 3,000 m (0 to 9,840 ft) Degree of Protection IP22 - Protection Against Shock Class II Class II with functional earth Class I MEDICAL RATING BF B	Touch Current 1)	264Vac									
Dimensions	Leakage Current 1)	264Vac	-	-	-						
C X X X X X X X X X	MECHANICAL										
Unit Weight kg 0.50		mm	150 × 75 × 40	170 × 85 × 40							
Unit Weight	(L×W×H)										
Second Connector Type	Unit Weight	0		-							
Connector Type MDS-150AAS24 BA, MDS-150AAS24 FA: Input: C14 socket; Output: 4-pin DIN MDS-150AAS24 BE: Input: C14 socket; Output: Tuning Fork type MTBF 2) 1,000,000 hrs 1,000,000 hrs 1,000,000 hrs 1,000,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT Operating Temperature 3) 0°C to +40°C Storage Temperature -40°C to +85°C Operating Humidity 10 to 95% RH (Non-Condensing) Operating Altitude 0 to 5,000 m (0 to 16,400 ft) 0 to 3,000 m (0 to 9,840 ft) Degree of Protection IP22 - Class II with functional earth Class I MEDICAL RATING Float Rating BF		lb		· ·							
EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT Operating Temperature 3) Storage Temperature -40°C to +85°C Operating Humidity 10 to 95% RH (Non-Condensing) Operating Altitude 0 to 5,000 m (0 to 16,400 ft) Degree of Protection IP22 Protection Against Shock Class II MEDICAL RATING Float Rating BF EN 55011/EN 55032, FCC Title 47: Class B 0 °C to +40°C -40°C to +85°C 0 to 49°C to +85°C Operating Altitude 0 to 5,000 m (0 to 9,840 ft) Class II with functional earth Class I	Connector Type		MDS-150AAS2	24 BA, MDS-150AAS24 FA: Input: C14 socket; C	Output: 4-pin DIN						
ENVIRONMENT Operating Temperature 3) Storage Temperature -40°C to +85°C Operating Humidity 10 to 95% RH (Non-Condensing) Operating Altitude 0 to 5,000 m (0 to 16,400 ft) Degree of Protection IP22 - Protection Against Shock Class II MEDICAL RATING Float Rating BF B O°C to +40°C -00°C to +85°C 0 to 3,000 m (0 to 9,840 ft) 0 to 3,000 m (0 to 9,840 ft) Class II with functional earth Class I	MTBF 2)		1,000,000 hrs	1,000,000 hrs	1,000,000 hrs						
Operating Temperature 3) Storage Temperature -40°C to +85°C Operating Humidity 10 to 95% RH (Non-Condensing) Operating Altitude 0 to 5,000 m (0 to 16,400 ft) Degree of Protection IP22 - Protection Against Shock Class II Class II with functional earth MEDICAL RATING Float Rating BF	EMC & Emissions			EN 55011/EN 55032, FCC Title 47: Class B							
Storage Temperature -40°C to +85°C Operating Humidity 10 to 95% RH (Non-Condensing) Operating Altitude 0 to 5,000 m (0 to 16,400 ft) Degree of Protection IP22 - Protection Against Shock Class II Class II with functional earth MEDICAL RATING Float Rating BF	ENVIRONMENT										
Operating Humidity Operating Altitude O to 5,000 m (0 to 16,400 ft) Degree of Protection IP22 Protection Against Shock Class II Class II with functional earth MEDICAL RATING Float Rating BF B IO to 95% RH (Non-Condensing) O to 3,000 m (0 to 9,840 ft) C to 3,000 m (0 to 9,840 ft) O to 3,000 m (0 to 9,840 ft) C lass II with functional earth B B	Operating Temperat	ure 3)		0°C to +40°C							
Operating Altitude 0 to 5,000 m (0 to 16,400 ft) 0 to 3,000 m (0 to 9,840 ft) Degree of Protection IP22 - Protection Against Shock Class II Class II with functional earth Class I MEDICAL RATING Float Rating BF B	Storage Temperatur	e		-40°C to +85°C							
Degree of Protection IP22 Protection Against Shock Class II Class II with functional earth Class I MEDICAL RATING Float Rating BF B	Operating Humidity			10 to 95% RH (Non-Condensing)							
Protection Against Shock Class II Class II with functional earth Class I MEDICAL RATING Float Rating BF B	Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	0 to 3,000 m	(0 to 9,840 ft)						
MEDICAL RATING Float Rating BF B	Degree of Protection	n	IP22		-						
MEDICAL RATING Float Rating BF B	Protection Against S	Shock	Class II	Class II with functional earth	Class I						
	MEDICAL RATING										
MOPP 2 × MOPP	Float Rating		BF		В						
Z " WOLL	MOPP			2 × MOPP							



- Notes
 1) NC: normal condition, SFC: single fault condition.
 2) MTBF as per Telcordia SR-332.
 3) Refer power de-rating in the product datasheet.

MEA

Features

- Universal AC input voltage range
- High Efficiency meet DoE VI
- Low leakage current
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications



Specifications

			NEW		NEW						
OUTPUT		MEA-065A12C A-A	MEA-090A12C V-A	MEA-065A15C A-A	MEA-090A15C V-A						
Output Voltage		12V	12V	15V	15V						
Output Current (Max	x)	5.0A	6.75A	4.33A	6A						
Output Power		60W	81W	65W	90W						
Load Regulation			± 4.5%								
Ripple & Noise		1%	1%	1%	1%						
INPUT											
Input Voltage Range	е			90-264Vac							
Input Frequency				47-63Hz							
Average	115Vac	88.0%	88.0%	88.0%	88.0%						
Efficiency	230Vac	00.070	89.0%	00.070	89.0%						
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC						
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC						
MECHANICAL											
Dimensions	mm	115 × 50 × 29	135 × 62 × 32	115 × 50 × 29	135 × 62 × 32						
$(L \times W \times H)$	inch	4.52 × 1.97 × 1.14	5.31 × 2.44 × 1.26	4.52 × 1.97 × 1.14	5.31 × 2.44 × 1.26						
Unit Weight	kg		0.31	0.25	0.31						
Offic Worgine	lb	0.55	0.68	0.55	0.68						
Connector Type				<u>5C A-A:</u> Input: C14 socket; Outpu <u>V-A:</u> Input: C14 socket; Output: ⁻							
MTBF 2)		1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs						
EMC & Emissions			EN 55011/EN 5	5032, FCC Title 47: Class B							
ENVIRONMENT											
Operating Temperat	ture 3)		-1	0°C to +60°C							
Storage Temperatur	re		-4	10°C to +85°C							
Operating Humidity			5 to 95%	RH (Non-Condensing)							
Operating Altitude			0 to 5,0	00 m (0 to 16,400 ft)							
Degree of Protection	n			IP22							
Protection Against S	Shock			Class I							
MEDICAL RATING											
Float Rating				В							
MOPP			2 × MOPP								



- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332.
 For MEA-065A□C A-A, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 25°C).

 3) Refer power de-rating in the product datasheet.



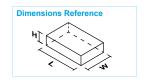


- Universal AC input voltage range
- High Efficiency meet DoE VI
- Low leakage current
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications



Specifications

			NEW		NEW	
OUTPUT		MEA-065A19C A-A	MEA-090A19C V-A	MEA-065A24C A-A	MEA-090A24C V-A	MEA-250A24C H-A
Output Voltage		19V	19V	24V	24V	24V
Output Current (Max	x)	3.42A	4.74A	2.71A	3.75A	10.42A
Output Power		65W	90W	65W	90W	250W
Load Regulation				± 4.5%		
Ripple & Noise		1%	1%	1%	1%	< 240mV pk-pk @ rated load
INPUT						
Input Voltage Range	Э			90-264Vac		
Input Frequency				47-63Hz		
Average Efficiency	115Vac 230Vac	89.0%	88.0% 89.0%	89.0%	89.0% 90.0%	90.0%
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC			
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.2mA @ NC, < 0.5mA @ SFC
MECHANICAL						
Dimensions	mm	115 × 50 × 29	135 × 62 × 32	115 × 50 × 29	135 × 62 × 32	200 × 100 × 43
$(L \times W \times H)$	inch	4.52 × 1.97 × 1.14	5.31 × 2.44 × 1.26	4.52 × 1.97 × 1.14	5.31 × 2.44 × 1.26	7.87 × 3.94 × 1.69
Unit Weight	kg	0.25	0.31	0.25	0.31	1.05
Offic Worgin	lb	0.55	0.68	0.55	0.68	2.31
Connector Type			MEA-090A19C V-A, MEA-		4 socket; Output: Barrel typ socket; Output: Tuning Fork Dutput: 6-pin mini-fit	
MTBF 2)		1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	1,000,000 hrs	500,000 hrs
EMC & Emissions			EN 5	5011/EN 55032, FCC Title	47: Class B	
ENVIRONMENT						
Operating Temperat	ure 3)		-10°C	C to +60°C		5°C to +60°C
Storage Temperatur	e		-40°C	C to +85°C		-40°C to +70°C
Operating Humidity				5 to 95% RH (Non-Conder	nsing)	
Operating Altitude				0 to 5,000 m (0 to 16,400	Oft)	
Degree of Protection	n			IP22		
Protection Against S	Shock			Class I		
MEDICAL RATING						
Float Rating				В		BF
MOPP				2 × MOPP		·



Notes

- Notes

 1) NC: normal condition, SFC: single fault condition.

 2) MTBF as per Telcordia SR-332.

 For MEA-065A□C A-A and MEA-250A24C H-A, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 25°C).

 3) Refer power de-rating in the product datasheet.

| ALTERNATE MODEL LIST

MDS





- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation

Series	Model Name*	CC Code	Output Voltage	Output Current	Output Power	Recommended MEA Model Name	Page
MDS-060AAS	MDS-060AAS12	BA	12V	5.0A	60W	MEA-065A12C A-A	37
	MDS-060AAS15	BA	15V	4.0A	60W	MEA-065A15C A-A	
	MDS-060AAS19	BA	19V	3.2A	60W	MEA-065A19C A-A	38
	MDS-060AAS24	BA	24V	2.5A	60W	MEA-065A24C A-A	
MDS-090AAS	MDS-090AAS15	BE	15V	6.0A	90W	MEA-090A15C V-A	37
	MDS-090AAS15	FE		6.0A	90W	MEA-090A15C V-A	
	MDS-090AAS19	BE	19V	4.73A	90W	MEA-090A19C V-A	38
	MDS-090AAS19	FE		4.73A	90W	MEA-090A19C V-A	
	MDS-090AAS24	BE	24V	3.75A	90W	MEA-090A24C V-A	
	MDS-090AAS24	FE		3.75A	90W	MEA-090A24C V-A	

^{*} Please visit www.DeltaPSU.com for product detail specifications.

STANDARDS & APPROVALS

| Medical Power Supplies

Enclosed Power Sup	IJ pply	CB Scheme to IEC 60950-1	CB Scheme to IEC 62368-1	CB Scheme to IEC 60601-1	CB SCheme to IEC 60335-1	CB Scheme to IEC 61558-1, IEC 61558-2-16	TUV to EN 60950-1	TUV to EN 62368-1	TUV to EN 60601-1	TUV to EN 60335-1	UL 60950-1	UL 62368-1	UL 60601-1	CSA C22.2 No. 60601-1	CCC (China)	CQC (China)	PSE (Japan)	RCM (Australia)	UKCA (United Kingdom)	RoHS Directive 2011/65/EU	RoHS Directive (EU) 2015/863 Compliant (EN 50581)	EN 61000-3-3 (Flicker)	EN 55011 Class B (Emissions)		FCC Part 47 Class B (Emissions)
MDS-200ADB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250ADB12 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB12 AA	•	•					•		•		•		•		•				0	•			•	•	
MDS-400ADB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB18 A	•	•					•		•		•		•		•				0	•			•	•	
MDS-200ADB24 AA	•		•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250ADB24 AA	•	•	•				•		•		•		•		•				0	•			•	•	
MDS-300ADB24 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-400ADB24 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB48 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MEB-500A24F AA	•	•	•	•			•	•	•		•		•		•				0	•			•	•	
MEB-750A24D AAA	•	•	•	•	•		•	•	•	•		•	•		•				0	•		•		•	
MEB-750A24LI AAA	•	•	•	•			•	•	•						•				0	•		•		•	
MEB-1K2A24T ABA	•	•	•	•			•		•		•	•	•		•				•	•			•	•	
MEB-1K2A42T ABA		-		-			_		_			_									_				
MEB-1K2A421 ABA	•	•	•	•			•		•		•	•	•		•					•	•		•	•	
Open Frame Power S		-	•	•			•		•		•	•	•		•				•		•		•	•	
MDS-040APS12B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-045APS12B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100APS12B A	•	•	•	•							•		•						0	•	•		•	•	
MDS-100AF 512B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-200APB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250APB12 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300APB12 AA	•	•	•	•			•		•		•		•		•				0	•			•	•	
MDS-400APB12 AD	•	•	•				•		•		•		•		•				0	•	•		•	•	
MDS-040APS15B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-065APS15B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100APS15B A	•	•	•								•		•						0	•			•	•	
MDS-100BPS15B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-040APS18B A	•	•	•								•		•		•				0	•			•	•	
MDS-065APS18B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100APS18B A	•	•	•	•							•		•			•			0	•			•	•	
MDS-100BPS18B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-300APB18 A□	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-040APS24B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-065APS24B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100APS24B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100BPS24B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-200APB24 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250APB24 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300APB24 A□	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-400APB24 A□	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-200APB36 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300APB48 A□	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-400AUS19B A	•	•	•	•							•		•		•				0	•	•		•	•	
WIDS-400A0519B A																									
MDS-400AUS24B A	•	•	•	•							•		•		•				0	•	•		•	•	

Please visit www.DeltaPSU.com to check the certification status.

Certified

o Pending

		3 Scheme to IEC 60950-1	CB Scheme to IEC 62368-1	CB Scheme to IEC 60601-1	CB SCheme to IEC 60335-1	CB Scheme to IEC 61558-1, IEC 61558-2-16	TUV to EN 60950-1	TUV to EN 62368-1	TUV or SIQ to EN 60601-1	TUV to EN 60335-1	UL 60950-1	UL 62368-1	UL 60601-1	CSA C22.2 No. 60601-1	CCC (China)	CQC (China)	PSE (Japan)	RCM (Australia)	UKCA (United Kingdom)	RoHS Directive 2011/65/EU	RoHS Directive (EU) 2015/863 Compliant (EN 50581)	EN 61000-3-3 (Flicker)	EN 55011 Class B (Emissions)	EN 55032 Class B (Emissions)	FCC Part 47 Class B (Emissions)
	뜅	CB	끙	뜅	2	8 <u>3</u>	ᄅ			7	5	5	5	ន	ၓ	ၓ	8	쮼	Š	쮼	နို ပိ	ш	面面	鱼画	윤교
Open Frame Power S	upply																								
MEU-600C24T AAA	•	•	•	•			•	•	•		•	•	•	•	•				•	•	•	•		•	
MEU-650A24T AAA	•	•	•	•	•	•		•	•	•		•							•	•	•	•		•	•
MEU-600C48T AAA	•	•	•	•			•	•	•		•	•	•	•	•				•	•	•	•		•	
ATX Power Supply																									
MDS-350AD701 AA	•	•	•	•			•				•		•		•				0	•	•		•	•	
Configurable Power S																									
MEG-700A3	•	•	•	•				•	•			•	•	•	•				0	•	•	•		•	•
MEG-1K2A4	•	•	•	•			•		•		•	•		•	•				0	•	•		•	•	•
MEG-2K1A6	•	•	•	•							•	•		•					0	•	•		•	•	•
MEG-3K0A9	•		•	•				•	•			•	•	•	•				0	•	•	•		•	•
Adapter																									
MDS-005AAS05 A		•	•	•											•				0	•	•		•	•	
MDS-005AAS05 B□		•	•	•					•										0	•	•		•	•	
MDS-005AAS05 C	•	•	•	•															•	•	•		•	•	
MDS-030AAC05 A	•	•	•	•			•		•						•				•	•	•		•	•	
MDS-030AAC12	•	•	•	•			•		•						•				•	•	•		•	•	
MDS-060BAS12 AB	•	•	•	•					•						•				•	•	•		•	•	
MDS-080AAS12 AB	•	•	•	•					•						•				•	•	•		•	•	
MDS-150AAS12 BA	•	•	•	•					•						•				•	•	•		•	•	
MDS-030AAC15	•	•	•	•			•		•						•				•	•	•		•	•	
MDS-090AAS15 □□	•	•	•	•					•						•				•	•	•		•	•	
MDS-060BAS19 AA MDS-090AAS19 DD																									
MDS-150AAS19 🗆 A	•	•	•	•					•						•				•	•	•		•	•	
MDS-150CAB19 AA	•	•	•	•					•						•				•	•	•		•	•	
MDS-030AAC24 AD	•	•	•				•		•						•				•	•			•	•	
MDS-060BAS24 AA	•	•	•	•					•						•				•	•	•		•	•	
MDS-090AAS24 AA	•	•	•	•					•						•					•				•	
MDS-090BAS24 AB	•	•	•	•					•						•				•	•	•		•	•	
MDS-150AAS24 □□	•	•	•	•					•						•				•	•	•		•	•	
MEA-065A12C A-A	•	•	•	•					•				•		•				0	•	•		•	•	
MEA-090A12C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-065A15C A-A	•	•	•	•					•				•		•				0	•	•	_	•	•	
MEA-090A15C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-065A19C A-A	•	•	•	•					•				•		•				0	•	•		•	•	
MEA-090A19C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-065A24C A-A	•	•	•	•					•				•		•				0	•	•		•	•	
MEA-090A24C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-250A24C H-A	•	•		•									•		•		•	•	•	•	•		•	•	

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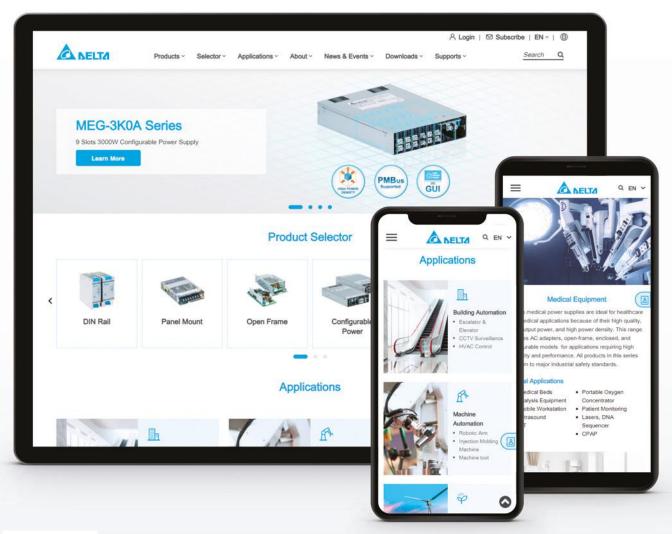
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NOTES

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 provides all information in the catalog and datasheets on an "AS IS" basis and does not offer any kind of warranty through the information for using the product. In the event of any discrepancy between the information in the catalog and datasheets, the datasheets shall prevail (please refer to www.DeltaPSU.com for the latest datasheets information). Delta shall have no liability of indemnification for any claim or action arising from any error for the provided information in the catalog and datasheets. Customer shall take its responsibility for evaluation of using the product before placing an order with Delta.

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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 panel mount and open frame types are typically considered component power supply. 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 back 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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