

Medical Power Supplies



www.DeltaPSU.com



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





- Industrial Automation
- Building Automation



Infrastructure

- 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







Medical Equipment

- Medical Beds
- Portable Oxygen
 Concentrator
- Dialysis Equipment





Test & Measurement

- Spectrum Analyzers
- AC Power Source
- Oscillators





Factory Automation

- Packaging Machine
- Wave Soldering Machine
- Conveyor Systems





Machine Automation

- Robotic Arm
- Injection Molding Machine



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 | Medical Power Supplies

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

			сс	Innut	Output	0	Conv	ection	Forc	ed Air	
Product Type	Series	Model Name	Code	Input Terminal	Output Terminal	Output Voltage	Output Current		Output Current	Output Power	Pag
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	1
		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		M3 PCB terminal	18V	10.55A	190W	16.66A	300W	-
		MDS-300ADB18	AB	171813-9998			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	
	• Intelligent Fan	MEB-500A24F	AA	Deca T24-EO3103A302	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	1
		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	

Medical Power Supply Model Numbering

MDS -	XXX	Α		В		
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	В –	XXX	Α			
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	A - Family A	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

PRODUCT SELECTION GUIDE | Medical Power Supplies

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			сс	Input	Output	Output	Conv	ection	Force	rced Air	
Product Type	Series	Model Name	Code	Terminal	Terminal	Voltage	Output Current		Output Current	Output Power	Pag
Open Frame	MDS	MDS-040APS12B	Α	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	A	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	MS FCB 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				16.67A	200W	33.33A	400W	
		MDS-400APB12 MDS-400APB12	AA	Molex 171813-9998	M3 PCB terminal		16.67A	200W	33.33A	400W	
	MDS-040APS15B	A	JST B2P3-VH	JST B4P-VH	15V	2.67A	40W	00.00A	40000		
		MDS-065APS15B	A	JST B2P3-VH	JST B4P-VH	100	4.2A	63W			-
					-						-
		MDS-100APS15B	A	JST B2P3-VH	JST B8P-VH		6.67A	100W			-
		MDS-100BPS15B	A	JST B2P3-VH	JST B4P-VH		5.3A	80W	6.7A	100W	
		MDS-040APS18B	A	JST B2P3-VH	JST B4P-VH	18V	2.22A	40W			
		MDS-065APS18B	A	JST B2P3-VH	JST B4P-VH		3.61A	65W			
	MDS-100APS18B	A	JST B2P3-VH	JST B8P-VH		5.55A	100W				
		MDS-100BPS18B	A	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	A	JST B2P3-VH	JST B4P-VH	24V	1.67A	40W			
		MDS-065APS24B	Α	JST B2P3-VH	JST B4P-VH		2.71A	65W			1
		MDS-100APS24B	Α	JST B2P3-VH	JST B8P-VH		4.17A	100W			1
		MDS-100BPS24B	A	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 MDS-250APB24	AA	171813-9998	IVIS PCB terminal		6.25A	150W	10.41A	250W	
		MDS-300APB24	AA	Molex	M3 PCB terminal		10.0A	240W	12.5A	230W	
		MDS-300APB24	AE	26-62-4030	MS FCB terminal		10.0A	240W	12.5A	300W	
		MDS-400APB24	AA	Molex	M3 PCB terminal		8.33A	240W	16.66A	400W	
		MDS-400APB24	AB	171813-9998	MOT OD terminar		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	1
		MDS-300APB48	AB	26-62-4030		101	5.0A	240W	6.25A	300W	1
		MDS-400AUS19B	A	Deca T33-BM1103A301	Deca T33-BM1104A301	19V	15.8A	300W	21.1A	400W	
		MDS-400AUS24B	A	Deca T33-BM1103A301	Deca T33-BM1104A301	24V	12.5A	300W	16.67A	400W	
		MDS-400AUS30B	A	Deca T33-BM1103A301	Deca T33-BM1104A301	30V	11.67A	350W	13.33A	400W	

Medical Power Supply Model Numbering

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]				
MDS-400AUS series	400 - 400W	A - Family A	U - U Frame		19 - 19V 24 - 24V 30 - 30V		

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			с		0	Outrout	Conv	ection	Force	ed Air	
Product Type	Series	Model Name	Code	Input Terminal	Output Terminal	Output Voltage	Output Current	Output Power	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 Voltage	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	<u>Single Output</u> Single Slot: 2V-60V Triple Slot: 8V-60V	700W	28
	for selected models • IT & Medical	edical MEG-1K2A4 4 Slots		Dual Output Single Slot: 3.3V-30V	1,200W	29
	safety approvals	MEG-2K1A6	6 Slots	Single Oldt. 0.0 V-00 V	2,100W	
		MEG-3K0A9	9 Slots		3,000W	

Medical Power Supply Model Numbering

ME	U –	XXX				
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	

ME	G –	XXX	Α	
Delta Medical Power	G - Configurable	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

PRODUCT SELECTION GUIDE Medical Power Supplies

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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	80W	
		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	

Medical Power Supply Model Numbering

MDS –	XXX		Α	S		CC Code	
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	1		12 -12V	1	

MDS -	XXX	AAC		
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	
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	

| Medical Power Supplies

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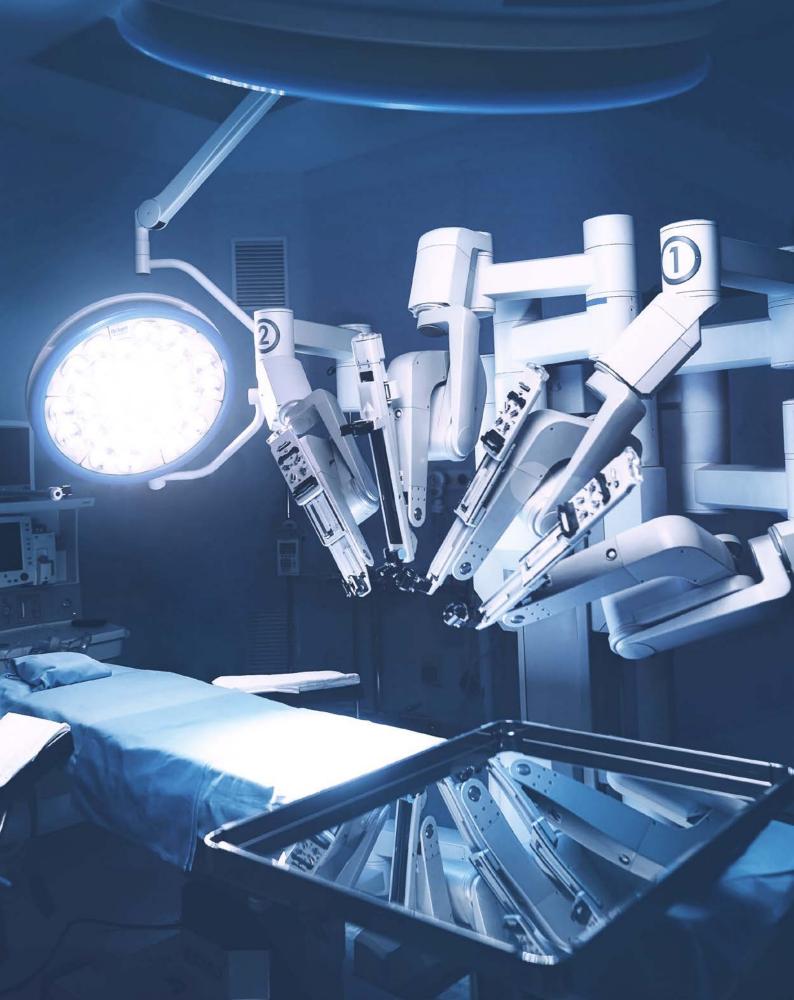
Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page
Adapter MDS	MDS	MDS-030AAC24	AA	24V	1.25A	30W	35
		MDS-030AAC24	AC		1.25A	30W	
		MDS-060BAS24	AA		2.5A	60W	
		MDS-090AAS24	BA		3.75A	90W	
		MDS-090AAS24	BE		3.75A	90W	
		MDS-090AAS24	FA		3.75A	90W	
		MDS-090AAS24	FE		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	

Medical Power Supply Model Numbering

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 - Adapter Medical Power	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	
Supply	Supply	065 - 65W	A - Family A	- Family A 12 - 12V 15 - 15V	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		19 - 19V 24 - 24V		V - 5.5 x 2.5 x 11mm, 90°, 1.2m	
		250 - 250W		24 - 24V		H - 6 pins mini-fit, 180°, 1.5m	

Medical Power Supplies



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



• Compliant with IEC 60601-1-2 Ed. 4 requirements

Medical

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- Suitable for type BF medical product
- Remote on/off control
- Power Good signal
- · Safety approvals for medical and IT applications



MEB

- 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)

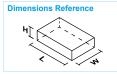
MDS

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 A	MDS-300ADB12 AA	MDS-400ADB12 AA	MDS-300ADB18 AD				
Output Voltage		12V	12V	12V	12V	18V				
Output Current (Max)		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.				
Linciency	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				
$(L \times W \times H)$	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				
onic 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	7: 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-Condensi	ing)					
Operating Altitude				0 to 5,000 m (0 to 16,400 f	t)					
MEDICAL RATING										
Float Rating				BF						
MOPP				2 × MOPP						



Notes

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.



Enclosed Power Supply 24V, 48V Output



MDS

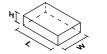
Features

- 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 AD	MDS-400ADB24 AD	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	Э			90-264Vac					
Input Frequency				47-63Hz					
Efficiency	115Vac (60Hz)	92.0% typ.	91.85% typ.	93.0% typ.	92.0% typ.	92.5% typ.			
Linclency	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 55	5011/EN 55032, FCC Title 4	7: Class B				
ENVIRONMENT									
Operating Temperat	ure 3)			-10°C to +70°C					
Storage Temperatur	e			-40°C to +85°C					
Operating Humidity				5 to 95% RH (Non-Conden	sing)				
Operating Altitude				0 to 5,000 m (0 to 16,400	ft)				
MEDICAL RATING									
Float Rating				BF					
MOPP				2 × MOPP					





Notes

- 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-400ADB24 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.

24V, 48V Output



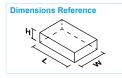
MEB

Features

- 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 •

Specifications

			NEW	NEW
OUTPUT		MEB-500A24F AA	MEB-750A24□ AAA	MEB-750A48ロ AAA
Output Voltage		24V	24V	48V
Output Current (Ma	x)	21.0A	31.25A	15.63A
Output Power		504W	750W	750W
Load Regulation		< 150mV	< 2%	< 2%
Ripple & Noise		< 300mVpp @ 0°C to +50°C	1% pk-pk Vrated @ rated load	1% pk-pk Vrated @ rated load
INPUT				
Input Voltage Range	e	90-264Vac	85-26	64Vac
Input Frequency			47-63Hz	
Efficiency	230Vac (50Hz)	92.0% typ.	94.0% typ.	94.0% typ.
Leakage Current ¹⁾ 264Vac < 0.1mA Output-F		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	
MECHANICAL				
Dimensions	mm	165.3 × 85.2 × 41	177.8 × 101.6 × 40	177.8 × 101.6 × 40
$(L \times W \times H)$		6.50 × 3.35 × 1.61	7.00 × 4.00 × 1.58	7.00 × 4.00 × 1.58
Unit Weight	0	0.66	1.10	1.10
0	lb		2.40	2.40
MTBF 2)		> 700,000 hrs	> 500,000 hrs	> 500,000 hrs
EMC & Emissions		EN 55011 & Compliant with EN 55032, FCC Title 47: Class B	EN 55011, EN 55032,	FCC Title 47: Class B
ENVIRONMENT				
Operating Temperat	ture ³⁾		-20°C to +70°C	
Storage Temperatur	re	-30°C to +80°C	-40°C to	o +80°C
Operating Humidity		20 to 90% RH (Non-Condensing)	5 to 95% RH (N	lon-Condensing)
Operating Altitude		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)		
MEDICAL RATING				
Float Rating			BF	
MOPP			2 × MOPP	



- Notes
 - 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.

Panel Mount Power Supply 24V, 42V, 48V Output



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

Specifications

OUTPUT		MEB-1K2A24T ABA	MEB-1K2A42T ABA	MEB-1K2A48T ABA
Output Voltage		24V	42V	48V
Output Current (Max	x)	50.0A	28.5A	
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	Э		85-264Vac	
Input Frequency			47-63Hz	
Efficiency	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
$(L \times W \times H)$	inch	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
MTBF 2)		> 500,000 hrs	> 500,000 hrs	> 500,000 hrs
EMC & Emissions			EN 55011/EN 55032, FCC Title 47: Class E	3
ENVIRONMENT				
Operating Temperat	ture 3)		-20°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)	
MEDICAL RATING				
Float Rating			BF	
MOPP			2 × MOPP	



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 •





击 Medical Equipment

Open Frame Power Supply 12V Output



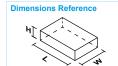
MDS

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

Specifications

OUTPUT		MDS-040APS12B A	MDS-065APS12B A	MDS-100APS12B A	MDS-100BPS12B A		
Output Voltage		12V	12V	12V	12V		
Output Current (Ma	x)	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	е		ę	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)	_eakage 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 weight	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 55	032, FCC Title 47: Class B			
ENVIRONMENT							
Operating Temperat	ture ³⁾		-1()°C to +70°C			
Storage Temperatur	re		-4()°C to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)	5 to 95% R	H (Non-Condensing)	10 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			



 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.

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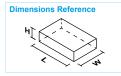
MDS

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 AD		
Output Voltage		12V	12V	12V	12V		
Output Current (Ma	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	е		90-20	64Vac			
Input Frequency			47-6	63Hz			
- <i>f</i> ()-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		
$(L \times W \times H)$	inch	4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44		
Jnit Weight	0	0.20	0.41	0.41	0.41		
Ŭ	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 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 × N	IOPP			



Notes

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.



Open Frame Power Supply 15V Output



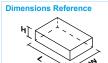
MDS

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

Specifications

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				47-63Hz			
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		
$(L \times W \times H)$	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		
Onit Weight	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% I	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			



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

Notes



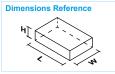
MDS

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 (Ma	x)	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	e			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		
$L \times W \times H$)	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	5.01 × 3.01 × 1.44		
Unit Weight		0.08	0.13	0.21	0.15	0.41		
Ib		0.18	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	(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	ft)	0 to 5,000 r	n (0 to 16,400 ft)		
MEDICAL RATING								
Float Rating				BF				
MOPP				2 × MOPP				
		1						



Notes

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.



Open Frame Power Supply 24V Output



MDS

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

Specifications

OUTPUT		MDS-040APS24B A	MDS-065APS24B A	MDS-100APS24B A	MDS-100BPS24B A		
Output Voltage		24V	24V	24V	24V		
Output Current (Ma	x)	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 Weight	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% F	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 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.



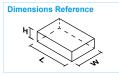
MDS

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 AD	MDS-300APB24 AD	MDS-400APB24 AD			
Output Voltage		24V	24V	24V	24V			
Output Current (Ma	x)	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						
INPUT								
Input Voltage Range	е		90-20	64Vac				
Input Frequency			47-6	63Hz				
- <i>ffi</i> = 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			
0	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 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 × N	ЛОРР				



Notes

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.



Open Frame Power Supply 36V, 48V Output



MDS

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-200APB36 AA	MDS-300APB48 A			
Output Voltage		36V	48V			
Output Current (Max	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	e	90-2	264Vac			
Input Frequency		47-	63Hz			
Efficiency	115Vac (60Hz)	91.5% typ.	92.5% typ.			
Enciency	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	mm	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6			
$(L \times W \times H)$		4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44			
Unit Weight	0	0.20	0.41			
lb		0.44	0.90			
MTBF ²⁾		800,000 hrs	800,000 hrs			
EMC & Emissions ENVIRONMENT		EN 55011/EN 55032, FCC Title 47: Class B				
Operating Temperature ³⁾		-10°C to +70°C				
Storage Temperature		-10°C to +70°C -40°C to +85°C				
Operating Humidity Operating Altitude		5 to 95% RH (Non-Condensing) 0 to 5,000 m (0 to 16,400 ft)				
MEDICAL RATING		0.00,000 m				
Float Rating			BF			
MOPP			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.

19V, 24V, 30V Output



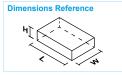
MDS

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

Specifications

OUTPUT		MDS-400AUS19B A	MDS-400AUS24B A	MDS-400AUS30B A		
Output Voltage		19V	24V	30V		
Output Current (Max	()	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			90-264Vac			
Input Frequency			47-63Hz			
Efficiency	115Vac 230Vac	91.38% typ.	91.94% typ.	92.51% typ.		
	240Vac	< 0.1mA @ NC	< 0.1mA @ NC	< 0.1mA @ NC		
Leakage Current 1)	264Vac	< 0.3mA @ SFC	< 0.3mA @ SFC	< 0.3mA @ SFC		
MECHANICAL						
Dimensions	mm	198 × 97 × 41.5	198 × 97 × 41.5	198 × 97 × 41.5		
$(L \times W \times H)$	inch	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		
onit weight	lb	2.01	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 Temperature 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			



 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.

Open Frame Power Supply 24V, 48V Output

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

Specifications

			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				
Efficiency	115Vac (60Hz)	92.5% typ.	93.5% typ.	94.0% typ.			
Enciency	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			
$(L \times W \times H)$		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 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)				
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

Medical Equipment



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 •

Specifications

OUTPUT		MDS-350AD701							
Output Voltage		+3.3V	+5V	+5V _{SB}	+12V ₁	+12V ₂	-12V	-5V	
Output Current (No	m)	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 Rang	е	90-264Vac							
Input Frequency		47-63Hz							
Efficiency	115Vac (60Hz)	82% typ.							
Elliciency	230Vac (50Hz)	85% typ.	55% typ.						
Leakage Current 1)		< 0.1mA @ NC,	< 0.1mA @ NC, < 0.3mA @ SFC						
MECHANICAL									
Dimensions	mm	194 × 100 × 40.5							
$(L \times W \times H)$	inch	7.64 × 3.94 × 1.59							
Unit Weight	kg	1.20							
Ū.	lb	2.65							
MTBF ²⁾		500,000 hrs							
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B							
ENVIRONMENT									
Operating Temperature ³⁾		0°C to +50°C							
Storage Temperature		-40°C to +85°C							
Operating Humidity 5 to 95% RH (N		i 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 нì



Notes NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).
 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



Configurable Power Supply 2V-60V Output

MEG-A

Features

- Compact size and High Power Density
- 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

Output Power 3 Slote Output Power 700W Line Regulation ± 0.5% Land Regulation ± 1%, bkpk 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 NDULE Single Output, Dual Output Output Numbers Single Output, Dual Output Output Voltage Single Output, Dual Output Output Voltage Single Solt: 32-40V; Triple Slot: 30-40V Dual Output, Single Slot: 300W; Triple Slot: 700W Dual Output, Single Slot: 300W; Triple Slot: 700W Dual Output, Single Slot: 180W Nual Output, Single Slot: 180W NPUT Insult Content < 8.5A Input Vitage Name 0-264Vac Input Vitage Voltage (Max) 300Vac for 100ms Input Vitage Voltage (Max) 300Vac for 100ms Input Surge Voltage (Max) 300Vac for 100ms Input Current < 8.5A Other Gaudree 0.9.6 full load Patient Leakage Current ¹⁹ < 0.9.8 @ full load <th></th> <th></th> <th>NEW</th>			NEW				
Durbut Power 700W Line Regulation ± 0.5% Line Regulation ± 1% Ripple & Noise < 1% pk-pk Vrated or 100mV, which is larger	OUTPUT		MEG-700A3				
Line Regulation ± 0.9% Load Regulation ± 1% Ripple & Nois < 1% pk-pk. Vrated or 100mV, which is larger	Output Slots		3 Slots				
Lad Regulation ± 1% Ripple & Noise ± 1% by k-try K vitated or 100mV, which is larger Ripple & Noise 1% by k-try K vitated or 100mV, which is larger Dynamic Response ± 5% @ with 50-100% load change Remote Sense Up to 500mV compensation for voltage drop across Output Numbers Single Output / Dual Output Output Notage Single Output, Single Slot: 2X-60V, Triple Slot: 8V-60V Dual Output: Single Output, Single Slot: 300W; Triple Slot: 8V-60V Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Input Frequency 47-63Hz Input Frequency 47-63Hz Input Single Slot: 300Vac for 100ms Efficiency 115Vac 200vac 93.0% Innush Current < 0.5 G full load	Output Power		700W				
Lad Regulation ± 1% Ripple & Noise ± 1% by k-try K vitated or 100mV, which is larger Ripple & Noise 1% by k-try K vitated or 100mV, which is larger Dynamic Response ± 5% @ with 50-100% load change Remote Sense Up to 500mV compensation for voltage drop across Output Numbers Single Output / Dual Output Output Notage Single Output, Single Slot: 2X-60V, Triple Slot: 8V-60V Dual Output: Single Output, Single Slot: 300W; Triple Slot: 8V-60V Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Dual Output: Single Output, Single Slot: 300W; Triple Slot: 700W Input Frequency 47-63Hz Input Frequency 47-63Hz Input Single Slot: 300Vac for 100ms Efficiency 115Vac 200vac 93.0% Innush Current < 0.5 G full load	Line Regulation		±0.5%				
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 MobuL= Single Output / Dual Output Output Nottage Single Output / Dual Output Output Voltage Single Output, Single Slot: 2V-60V, Triple Slot: 8V-60V Output Voltage Single Output, Single Slot: 33-30V Output Voltage Cutput, Single Slot: 300W; Triple Slot: 700W Jual Output; Single Slot: 300W; Triple Slot: 700W Dual Output; Single Slot: 300W Triple Slot: 700W Jual Output; Single Slot: 300W; Triple Slot: 700W Power Karce 90-264Vac Input Frequence < 8.5A	Load Regulation		±1%				
Dynamic Response ± 5% @ with 50-100% load change Remote Sense Up to 500mV compensation for voltage drop across OUTPUT MODULE Single Output / Dual Output Output Nombers Single Output Single Slot: 2V-60V, Triple Slot: 8V-60V Dual Output: Single Slot: 2V-60V, Triple Slot: 8V-60V Dual Output: Single Slot: 33-30V Output Notage Single Output: Single Slot: 300W; Triple Slot: 700W Dual Output: Single Slot: 160W Single Output: Single Slot: 160W Input Oregan 47-63Hz Input Vitage Range 90-264Vac Input Singe Voltage (Max) 300Vac for 100ms Input Singe Voltage (Max) 300Vac for 100ms Efficiency 115Vac 230Vae 93.0% Insush Current 230Vac 230Vae 90.9% full load Outpat Leakage Current * < 0.5mA @ SFC	Ripple & Noise		< 1% pk-pk Vrated or 100mV, which is larger				
Remote Sense Up to 500mV compensation for voltage drop across OUTPUT MODULE Single Output / Dual Output Output Numbers Single Output / Dual Output Output Voltage Single Output, Single Slot: 2V-60V; Triple Slot: 8V-60V Dual Output, Single Slot: 3.3-30V Output Voltage Ramger Single Output, Single Slot: 300W; Triple Slot: 700W Dual Output, Single Slot: 300W; Triple Slot: 700W NPUT 90-264Vac Input Voltage Kamger 90-264Vac Input Frequency 47-63Hz 300Vac for 100ms 300vac for 100ms Efficiency 115Vac 230Vac 93.0% Innush Current 230Vac Input Surger Voltage Current " < 0.5m @ @ @	Hold-up Time		12ms @ rated load, with nominal input range				
OUTPUT MODULE Single Output / Dual Output Output Voltage Single Output, Single Slot: 2V-60V; Triple Slot: 8V-60V Dual Output, Single Slot: 3.3-30V Single Output, Single Slot: 3.3-30V Output Power (Max) Single Output, Single Slot: 30.0W; Triple Slot: 700W Dual Output, Single Slot: 30.0W; Triple Slot: 700W Dual Output, Single Slot: 30.0W; Triple Slot: 700W INPUT Dual Output, Single Slot: 30.0W; Triple Slot: 700W Input Voltage Range 90-264Vac Input Frequency 47-63Hz Input Surge Voltage (Max) 300Vac for 100ms Efficiency 115Vac 230Vac 93.0% Intrush Current 2.03Vac 230Vac 2.03Vac 230Vac 9.0.95 @ full load Patient Leakage Current " < 0.5mA @ SFC	Dynamic Response		± 5% @ with 50-100% load change				
Output Numbers Single Output / Dual Output Output Voltage Single Output; Single Slot: 2V-60V; Triple Slot: 8V-60V Output Power (Max) Single Output; Single Slot: 33-30V Dual Output; Single Slot: 300W; Triple Slot: 700W Dual Output; Single Slot: 180W NPUT Jaua Output; Single Slot: 180W Input Frequency 47-63Hz Input Frequency 47-63Hz Input Surge Voltage (Max) 300Vac for 100ms Input Surge Voltage (Max) 300Vac for 100ms Efficiency 115Vac 230Vac 93.0% Inrush Current (Cold Start) 230Vac 40A Patient Leakage Current '' < 0.95 @ full load	Remote Sense		Up to 500mV compensation for voltage drop across				
Output Voltage Single Output: Single Slot: 2V-60V; Triple Slot: 8V-60V Dual Output: Single Slot: 3.3-30V Single Output: Single Slot: 3.3-30V NPUT Single Output: Single Slot: 300W; Triple Slot: 700W Dual Output: Single Slot: 300V Dual Output: Single Slot: 300W NPUT 90-264Vac Input Voltage Rame 90-264Vac Input Surge Voltage (Max) 300Vac for 100ms Efficiency 115Vac 230Vac 93.0% Insush Current 40A Power Factor 115Vac 230Vac 9.05 @ full load 230Vac -0.5 mA @ SFC Earth Leakage Current ¹⁰ < 0.3mA @ NC, < 1mA @ SFC	OUTPUT MODULE						
Dulp Urbur Vortage Dual Output: Single Slot: 3.3-30V Output Power (Max) Single Output: Single Slot: 300W; Triple Slot: 700W Input Vortage Range 90-264 Vac Input Vortage Range 47-63 Hz Input Vortage (Max) 300 Vac for 100ms Input Surge Voltage (Max) 300 Vac for 100ms Input Surge Voltage (Max) 300 Vac for 100ms Efficiency 115 Vac 230 Vac 30.3 % Innush Current (Cold Start) 230 Vac 230 Vac 0.9.5 @ full load Patient Leakage Current ¹ < 0.95 @ full load	Output Numbers		Single Output / Dual Output				
Single Output: Single Sind: 300W; Triple Slot: 700W Dual Output: Single Output: Single Sind: 800W INPUT Single Output: Single Sind: 800W Input Voltage Range 90-264Vac Single Output: Input Gurrent < 8.5A	Output Voltage						
INPUT 90-264Vac Input Voltage Range 90-264Vac Input Frequency 47-63Hz Input Current < 8.5A	Output Power (Max)	Single Output: Single Slot: 300W; Triple Slot: 700W				
Input Voltage Range 90-264Vac Input Frequency 47-63Hz Input Surge Voltage (Max) 300Vac for 100ms Efficiency 115Vac 230Vac 93.0% Inrush Current 230Vac 230Vac 93.0% Inrush Current 230Vac 230Vac 93.0% Inrush Current 230Vac Vold Start) 230Vac Vold Start) 230Vac Vold Start) 230Vac Vold Start) 20Vac Vold Start) 20.5 @ full load Power Factor 115Vac Vold Start) < 0.5 @ full load	INPUT						
Input Frequency 47-63Hz Input Current < 8.5A	Input Voltage Range	e	90-264Vac				
Input Current < 8.5A	1 0 0	-	7-63Hz				
Input Surge Volage (Max) 300Vac for 100ms Efficiency 115Vac 91.0% 230Vac 93.0% Inrush Current (Cold Start) 230Vac 40A Power Factor 115Vac 2.05.0° (full load Patient Leakage Current < 0.1mA @ NC, < 0.5mA @ SFC							
Efficiency115Vac 230Vac91.0% 93.0%Inrush Current (Cold Start)230Vac40APower Factor115Vac 230Vac> 0.95 @ full loadPatient Leakage Current ')< 0.1mA @ NC, < 0.5mA @ SFC							
Efficiency 230Vac 93.0% Inrush Current (Cold Start) 230Vac 40A Power Factor 115Vac 230Vac > 0.95 @ full load Patient Leakage Current ') < 0.1mA @ NC, < 0.5mA @ SFC		· /					
(Cold Start) 230Vac 40A Power Factor 115Vac 230Vac > 0.95 @ full load Patient Leakage Current ¹) < 0.1mA @ NC, < 0.5mA @ SFC	Efficiency						
Power Factor 230Vac > 0.95 @ ruil load Patient Leakage Current ¹⁾ < 0.1mA @ NC, < 0.5mA @ SFC	Inrush Current (Cold Start)	230Vac	40A				
Earth Leakage Current ¹⁾ < 0.3mA @ NC, < 1mA @ SFC	Power Factor		> 0.95 @ full load				
Earth Leakage Current ¹⁾ < 0.3mA @ NC, < 1mA @ SFC	Patient Leakage Cu	Irrent 1)	< 0.1mA @ NC, < 0.5mA @ SFC				
mm 215 × 88.9 × 41.5 (L × W × H) inch 8.50 × 3.50 × 1.63 Unit Weight kg 0.80 MTBF ²) 500,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B EN VIRONMENT Operating Temperature ³⁾ -20°C to +70°C Storage Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)							
Inch 8.50 × 3.50 × 1.63 Weight kg 0.80 Ib 1.76 MTBF ²⁾ 500,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT -20°C to +70°C Operating Temperature ³⁾ -20°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)	MECHANICAL						
kg 0.80 Unit Weight lb 1.76 MTBF ²) 500,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT -20°C to +70°C Operating Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)	Dimensions	mm	215 × 88.9 × 41.5				
Ib 1.76 MTBF ²) 500,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT -20°C to +70°C Operating Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)	$(L \times W \times H)$	inch	8.50 × 3.50 × 1.63				
Ib 1.76 MTBF ²) 500,000 hrs EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT -20°C to +70°C Operating Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)		kg	0.80				
EMC & Emissions EN 55011/EN 55032, FCC Title 47: Class B ENVIRONMENT Operating Temperature ³⁾ -20°C to +70°C Storage Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)							
ENVIRONMENT Operating Temperature ³⁾ -20°C to +70°C Storage Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)			500,000 hrs				
Operating Temperature ³⁾ -20°C to +70°C Storage Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)	EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B				
Storage Temperature -40°C to +85°C Operating Humidity 5 to 95% RH (Non-Condensing)	ENVIRONMENT						
Operating Humidity 5 to 95% RH (Non-Condensing)	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)				
	MEDICAL RATING						
Float Rating B	Float Rating		В				
	MOPP		2 × MOPP				

Dimensions Reference



Notes 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 l					
Hold-up Time		12ms @ 115Vac	12ms @ 115Vac	12ms @ rated load, with nominal input range				
Dynamic Response	e		± 5% @ with 50-100% load change	<u>}</u>				
Remote Sense			Up to 500mV compensation for voltage dro	p across				
OUTPUT MODULI	Ξ							
Output Numbers			Single Output / Dual Output					
Output Voltage			Single Output: Single Slot: 2V-60V; Triple Slot	ot: 8V-60V				
Output voltage			Dual Output: Single Slot: 3.3V-30V	,				
Output Power (Max	v)		Single Output: Single Slot: 300W; Triple Slo	t: 1200W				
	x)		Dual Output: Single Slot: 240W					
INPUT								
Input Voltage Range			90-264Vac					
Input Frequency		47-63Hz						
Input Current		< 8.5A	< 15A	< 20A				
Input Surge Voltage (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%				
Inrush Current (Cold Start)	230Vac	40A	40A	40A				
Power Factor	115Vac 230Vac		> 0.95 @ full load	> 0.95 @ full load				
Patient Leakage C		< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC				
Earth Leakage Cur		< 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				
$(L \times W \times H)$		10.00 × 3.50 × 1.59	10.00 × 5.00 × 1.59	10.00 × 7.13 × 1.59				
		1.30	2.00	2.50				
Unit Weight Ib		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					
ENVIRONMENT								
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)					
MEDICAL RATING								
Float Rating			В					
MOPP			2 × MOPP					
			210011					

Dimensions Reference



Notes

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)

Medical Equipment

d±h

- 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



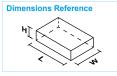
MDS

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

Specifications

OUTPUT		MDS-005AAS05 AD	MDS-005AAS05 BD	MDS-005AAS05 C	MDS-030AAC05 A		
Output Voltage		5V	5V	5V	5V		
Output Current (Ma	x)	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 Rang	e		90-264Vac		85-264Vac		
Input Frequency				47-63Hz			
Average 115Vac Efficiency 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	mm	56.5 × 39.5 × 28	56.5 × 39.5 × 28	56.5 × 39.5 × 28	88 × 53.5 × 27.5		
$(L \times W \times H)$	inch	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	kg	0.10	0.10	0.10	0.15		
onit weight	lb	0.22	0.22	0.22	0.33		
Connector Type		<u>MDS-005AAS05 A</u> : Input: Wall mount – CN; Output: A <u>V</u> : Barrel type; A <u>U</u> : Micro USB <u>MDS-005AAS05 B</u> : Input: Wall mount – US; Output: B <u>V</u> : Barrel type; B <u>U</u> : Micro USB <u>MDS-005AAS05 C</u> : Input: Wall mount – CN; Output: C <u>V</u> : Barrel type; C <u>U</u> : Micro USB <u>MDS-030AAC05 AA</u> : Input: Wall mount – CN; Output: Barrel type <u>MDS-030AAC05 AB</u> : Input: Wall mount – US; Output: Barrel type <u>MDS-030AAC05 AC</u> : 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 5,000 m (0 to 16,400 ft)				
Degree of Protection		IP22					
Degree of Protectio		Class II					
0	Shock						
Protection Against S							
Degree of Protectio Protection Against S MEDICAL RATING Float Rating				BF			



Notes
 NC: normal condition, SFC: single fault condition.
 MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).
 Refer power de-rating in the product datasheet.

Adapter

A SELTA | 31



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

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	86.21%	88.0%	0.20/ +	88.0%	
	230Vac	86.21%	88.0%	83% typ.	87.0%	
Touch Current 1)	264Vac	< 0.1mA @ NC,	< 0.1mA @ NC,	< 0.1mA @ NC,	< 0.1mA @ NC,	
	204740	< 0.3mA @ SFC	< 0.3mA @ SFC	< 0.3mA @ SFC	< 0.3mA @ SFC	
Leakage Current 1)	264Vac	< 0.1mA @ NC, < 0.5mA @ SFC	-	-	-	
MECHANICAL						
Dimensions (L × W × H)	mm	88 × 53.5 × 27.5	135 × 62 × 34.1	150 × 75 × 40	170 × 85 × 40	
	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	kg	0.15	0.34	0.50	1.10	
	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 Temperat	ure ³⁾		0°C t	o +40°C		
Storage Temperature		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing) 10 1			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		1 	-			
		BE				
Float Rating			BF		В	



- 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

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-030AAC15 A	MDS-090AAS15 BD	MDS-090AAS15 FD									
Output Voltage		15V	15V	15V									
Output Current (Max	x)	2.0A	6.0A	6.0A									
Output Power		30W	90W	90W									
Load Regulation		± 5%	± 4	I.5%									
Ripple & Noise		< 200mV pk-pk @ rated load	114mV pk-pk @ full load	114mV pk-pk @ full load									
INPUT													
Input Voltage Range	e	85-264Vac 90-264Vac											
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									
$(L \times W \times H)$	inch	3.46 × 2.11 × 1.08	5.91 × 2.36 × 1.38	5.91 × 2.36 × 1.38									
Unit Weight	0	0.15	0.45	0.45									
	lb	0.33	0.99	0.99									
Connector Type		MDS-03 MDS-03 MDS-090AAS1	<u>DAAC15 AA</u> : Input: Wall mount – CN; Output: <u>DAAC15 AB</u> : Input: Wall mount – US; Output: <u>DAAC15 AC</u> : Input: Wall mount – EU; Output: 5 <u>BA, MDS-090AAS15 FA</u> ; Input: C14 socket; <u>E, MDS-090AAS15 FE</u> : 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 E	3									
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 I										
MEDICAL RATING													
Float Rating			BF	В									
MOPP			2 × MOPP										

- Notes 1) NC: normal cc 2) MTBF as per For MDS-030/
 - 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.

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Adapter 19V Output



MDS

Features

- 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-060BAS19 AA	MDS-090AAS19 BD	MDS-090AAS19 FD	MDS-150AAS19 BA	MDS-150AAS19 FA	MDS-150CAB19 AA					
Output Voltage		19V	19V	19V	19V	19V	19V					
Output Current (Max	<)	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%					
Ripple & Noise		1% typ. pk-pk @ full load	91.2mV pk-pk @ full load			94.4mV pk-pk @ full load	109mV pk-pk @ full load					
INPUT												
Input Voltage Range	9			90-20	64Vac							
Input Frequency				47-6	63Hz							
Average	115Vac	88.0%	88.0%	88.0%	00.00/	00.00/	00.00/ 1					
Efficiency	230Vac	87.0%	-	-	88.0%	88.0%	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					
	kg	0.34	0.45	0.45	1.10	1.10	0.52					
Unit Weight		0.75	0.99	0.99	2.43	2.43	1.15					
Connector Type			MDS-090AAS19 MDS-090AAS19 BE MDS-150AAS19	BA, MDS-090AAS19 , MDS-090AAS19 FE: 9 BA, MDS-150AAS19F	socket; Output: Tuning <u>FA:</u> Input: C14 socket; (Input: C14 socket; Out <u>FA:</u> Input: C14 socket; (<u>C6</u> socket; Output: 4-pi							
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	า	IP22			-	IP22						
Protection Against S	Shock	Class II	Class II with functional earth	Class I	Class II with functional earth	Cla	ass I					
MEDICAL RATING					·							
Float Rating		BF B										
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.



MDS

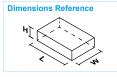
Features

- 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		MDS-030AAC24 AD	MDS-060BAS24 AA	MDS-090AAS24 BD	MDS-090AAS24 FD						
Output Voltage		24V	24V	24V	24V						
Output Current (Max	()	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	÷	85-264Vac									
Input Frequency			47-6	63Hz							
Average	115Vac	87.0%	87.0%	88.0%	88.0%						
Efficiency	230Vac	07.070		-	-						
Touch Current 1)	264Vac	< 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						
$(L \times W \times H)$	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 Weight	lb	0.33	0.75	0.99	0.99						
Connector Type			MDS-030AAC24 AC: Input: Wal		e 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 Temperat	ure ³⁾		0°C to) +40°C							
Storage Temperatur	е		-40°C t	o +85°C							
Operating Humidity			5 to 95% RH (N	lon-Condensing)							
Operating Altitude		0 to 5,000 m	(0 to 16,400 ft)	0 to 3,000 m	n (0 to 9,840 ft)						
Degree of Protection	ו	IF	-								
Protection Against S	hock	Cla	Class I								
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-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.

Adapter 24V Output



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		MDS-090BAS24 AB	MDS-150AAS24 BD	MDS-150AAS24 FA								
Output Voltage		24V	24V	24V								
Output Current (Max	x)	3.75A	6.25A	6.25A								
Output Power		90W	150W	150W								
Load Regulation			± 4.5%									
Ripple & Noise		107.2mV pk-pk @ full load	83.2mV pk-pk @ full load	83.2mV pk-pk @ full load								
INPUT												
Input Voltage Range	Э	90-264Vac										
Input Frequency			47-63Hz									
Average	115Vac	07.040/ @ full land	88.0%	88.0%								
Efficiency	230Vac	87.61% @ full load	87.0%	87.0%								
Touch Current 1)	264Vac	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC								
Leakage Current 1)	264Vac	-	-	-								
MECHANICAL												
Dimensions	mm	150 × 75 × 40	170 × 85 × 40	170 × 85 × 40								
$(L \times W \times H)$		5.91 × 2.95 × 1.57	6.69 × 3.35 × 1.57	6.69 × 3.35 × 1.57								
Unit Weight		0.50	1.10	1.10								
Offic Weight	lb	1.10	2.43	2.43								
Connector Type		MDS-090BAS24 AB: Input: C8 socket; Output: 4-pin DIN 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								
EMC & Emissions			EN 55011/EN 55032, FCC Title 47:	Class B								
ENVIRONMENT												
Operating Temperat	ture ³⁾		0°C to +40°C									
Storage Temperatur	е		-40°C to +85°C									
Operating Humidity			10 to 95% RH (Non-Condensi	ing)								
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	0 to	9 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		· · · · · · · · · · · · · · · · · · ·		and the second secon								
Float Rating		BF		В								
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.

12V, 15V Output

MEA

Features

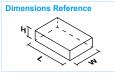
- Universal AC input voltage range
- High Efficiency meet DoE VI
- Low leakage current
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications



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	00.0%	89.0%	00.0%	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		0.25	0.31	0.25	0.31							
onic Wolgin	lb	0.55	0.68	0.55	0.68							
Connector Type		MEA-065A12C A-A, MEA-065A15C A-A: Input: C14 socket; Output: Barrel type MEA-090A12C V-A, MEA-090A15C V-A: 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 5	5032, FCC Title 47: Class B								
ENVIRONMENT												
Operating Temperat	ture 3)		-	0°C to +60°C								
Storage Temperatur	re		-4	0°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

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.



Adapter 19V, 24V Output



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-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 (Ma	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%	< 240mV pk-pk @ rated load											
INPUT															
Input Voltage Range	е		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	< 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	< 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	0	0.25	0.31	0.25	0.31	1.05									
onit weight	lb	0.55	0.68	0.55	0.68	2.31									
Connector Type		MEA-065A19C A-A, MEA-065A24C A-A: Input: C14 socket; Output: Barrel type MEA-090A19C V-A, MEA-090A24C V-A: Input: C14 socket; Output: Tuning Fork type MEA-250A24C H-A: Input: C14 socket; Output: 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	ture ³⁾		-10°	C to +60°C		5°C to +60°C									
Storage Temperatur	re		-40°	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	0 ft)										
Degree of Protectio	n			IP22											
Protection Against S	Shock			Class I											
MEDICAL RATING															
Float Rating				В		BF									
MOPP		2 × MOPP													



н] n) 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.



Medical Equipment

STANDARDS & APPROVALS

Medical Power Supplies

	CE	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)
Enclosed Power Sup											1														
MDS-200ADB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250ADB12 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-400ADB12 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB18 A	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-200ADB24 AA MDS-250ADB24 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-250ADB24 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB24 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300ADB48 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MEB-500A24F AA	•	•	•	•			•	•	•		•		•		•				0	•	•		•	•	
MEB-750A24D AAA	•	•	•	•	•		•	•	•	•		•			•				0	•	•	•		•	
MEB-750A48 AAA	•	•	•	•			•	•	•			•			•				0	•	•	•		•	
MEB-1K2A24T ABA	•	•	•	•			•		•		•	•	•		•				•	•	•		•	•	
MEB-1K2A42T ABA	•	•	•	•			•		•		•	•	•		•				•		•		•	•	
MEB-1K2A48T ABA	•	•	•	•			•		•		•	•	•		•				•	•	•		•	•	
Open Frame Power S	upply	/									1										1				
MDS-040APS12B A	٠	٠	٠	•							•		٠		٠				0	٠	•		•	•	
MDS-065APS12B A	•	•	٠	٠							•		•			•			0	•	•		•	•	
MDS-100APS12B A	•	•	٠	•							•		•			•			0	٠	•		•	•	
MDS-100BPS12B A	•	٠	٠	٠							٠		•		•				0	٠	•		٠	•	
MDS-200APB12 AA	•	•	٠	•			٠		•		•		•		•				0	٠	•		٠	•	
MDS-250APB12 AD	•	•	٠	•			•		•		•		•		•				0	٠	•		•	•	
MDS-300APB12 AA	٠	٠	٠	٠			٠		٠		•		•		•				0	٠	•		٠	•	
MDS-400APB12 AD	•	•	٠	٠			•		٠		•		•		•				0	٠	•		٠	•	
MDS-040APS15B A	٠	٠	٠	٠							٠		٠		٠				0	٠	•		٠	•	
MDS-065APS15B A	٠	٠	٠	٠							•		•			•			0	٠	•		٠	•	
MDS-100APS15B A	•	•	٠	٠							٠		٠			٠			0	٠	•		٠	•	
MDS-100BPS15B A	•	٠	•	•							•		•		•				0	•	•		•	•	
MDS-040APS18B A	٠	•	•	•							•		•		•				0	•	•		•	•	
MDS-065APS18B A	•	•	•	•							•		•			•			0	٠	•		•	•	
MDS-100APS18B A	•	•	•	•							•		•			•			0	٠	•		•	•	
MDS-100BPS18B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-300APB18 A	•	•	•	•			•		•		٠		•		•				0	•	•		•	•	
MDS-040APS24B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-065APS24B A MDS-100APS24B A	•	•	•	•							•		•			•			0	•	•		•	•	
MDS-100APS24B A MDS-100BPS24B A	•	•	•	•							•		•		•	•			0	•	•		•	•	
MDS-200APB24 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-200APB24 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300APB24 AL	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-300APB24 AL	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-200APB36 AA	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-200APB48 AD	•	•	•	•			•		•		•		•		•				0	•	•		•	•	
MDS-400AUS19B A	•	•	•	•							•		•		•				0	•	•		•	•	
MDS-400AUS24B A	•	•	•	•							•		•		•				0	٠	•		•	•	
MDS-400AUS30B A	•	•	٠	•							•		•		•				0	٠	•		•	•	
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	CE	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 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)
Open Frame Power S	upply	/									1				1	1							1		
MEU-600C24T AAA	٠	٠	٠	•			٠	٠	٠		٠	٠	•	٠	٠				٠	٠	•	٠		•	
MEU-650A24T AAA	•	•	٠	•	٠	•		•	•	•		•							•	•	•	٠		•	•
MEU-600C48T AAA	•	•	•	•			•	•	•		•	•	•	•	•				•	٠	•	•		•	_
ATX Power Supply					1																				
MDS-350AD701 AA	٠	•	•	•			•				•		•		•				0	•	•		•	•	
Configurable Power																									
MEG-700A3	•	•	•	•				•	•			•	•	•	•				0	٠	•	•		•	•
MEG-1K2A4	•	•	•	•			•		•		•	•		•	•				0	•	•		•	•	•
MEG-2K1A6	•	•	•	•							•	•		•					0	•	•		•	•	•
MEG-3K0A9	•		•	•				•	•			•	•	•	•				0	•	•	•		•	•
Adapter																			0						
MDS-005AAS05 A		•	•	•					•						٠				0	•	•		•	•	
MDS-005AAS05 BL	•	•	•	•					•										•	•	•		•	•	
MDS-005AAS05 CL	•	•	•	•			•		•						•				•	•	•		•	•	
MDS-030AAC05 AL	•		•	•			•		•						•				•	•	•		•	•	
MDS-060BAS12 AB	•		•	•					•						•				•	•	•		•	•	
MDS-080AAS12 AB	•	•	•	•					•						•				•	•	•		•	•	
MDS-150AAS12 BA	•	•	•	•					•						•				•	•	•		•	•	
MDS-030AAC15	•	•	•	•					•						•				•	•	•			•	
MDS-090AAS15	•	•	•	•					•						•				•	•	•		•	•	
MDS-060BAS19 AA	٠	•	٠	•					•						•				•	•	•		•	•	
MDS-090AAS19	•	•	•	•					•						•				•	•	•		•	•	
MDS-150AAS19 DA	•	•	•	•					•						•				•	٠	•		•	•	
MDS-150CAB19 AA	•	•	٠	•					•						•				•	•	•		•	•	
MDS-030AAC24 AD	٠	•	٠	•			٠		•						٠				٠	٠	•		•	•	
MDS-060BAS24 AA	٠	•	٠	•					•						•				•	•	•		•	•	
MDS-090AAS24	٠	•	٠	•					•						•				•	٠	•		•	•	
MDS-090BAS24 AB	٠	•	٠	٠					•						٠				٠	٠	•		•	•	
MDS-150AAS24	٠	•	٠	•					•						•				•	٠	•		•	•	
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	•	•	٠	•					•				•		•				0	٠	•		•	•	
MEA-090A15C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-065A19C A-A	•	•	•	•					•				•		•				0	٠	•		•	•	
MEA-090A19C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-065A24C A-A	٠	•	•	•					•				•		•				0	٠	•		•	•	
MEA-090A24C V-A	0	0	0	0					0				0		0				0	0	0	0	0	0	
MEA-250A24C H-A	٠	•		•									•		•		•	•	•	•	•		•	•	

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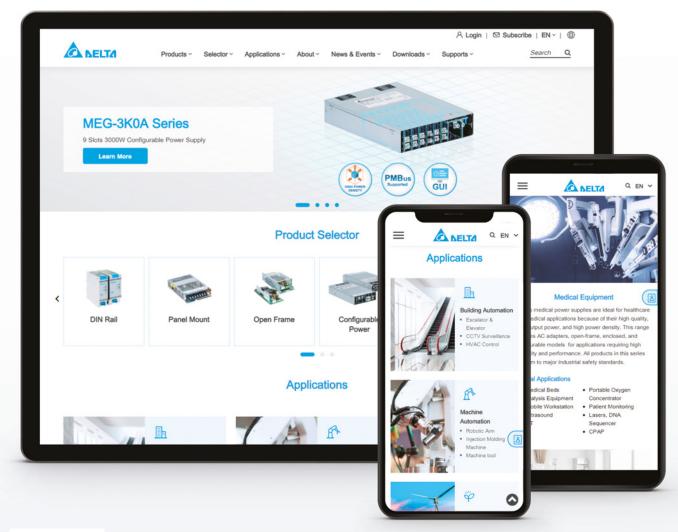


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Products with "New" tab are slated for official release with immediate effect, while products with "Coming Soon" tab will be available within the next two months from this catalog's publication month (refer to back cover page). Kindly contact your 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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