



# Medical Power Supplies



## | About Delta

Delta, founded in 1971, is a global leader in switching power supplies and thermal management products with a thriving portfolio of smart energy-saving systems and solutions in the fields of industrial automation, building automation, telecom power, data center infrastructure, EV charging, renewable energy, energy storage and display, to nurture the development of smart manufacturing and sustainable cities. As a world-class corporate citizen guided by its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," Delta leverages its core competence in high-efficiency power electronics and its ESG-embedded business model to address key environmental issues, such as climate change. Delta serves customers through its sales offices, R&D centers and manufacturing facilities spread over close to 200 locations across 5 continents.

Throughout its history, Delta has received various global awards and recognition for its business achievements, innovative technologies and dedication to ESG. Since 2011, Delta has been listed on the DJSI World Index of Dow Jones Sustainability™ Indices for 11 consecutive years. In 2021, Delta was also recognized by CDP with leadership level ratings for its substantial contribution to climate change and water security issues and named Supplier Engagement Leader for its continuous development of a sustainable value chain.

For detailed information about Delta, please visit: [www.deltaww.com](http://www.deltaww.com)

## | Business Categories



### Power Electronics

- Components
- Power and System
- Fan & Thermal Management
- Automotive Electronics

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### Automation

- Industrial Automation
- Building Automation



### Infrastructure

- ICT Infrastructure
- Energy Infrastructure & Industrial Solutions

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# | About Power and System Business Group (PSBG)

- World's leading provider of power products and solutions
- Started mass production of switching power supplies in 1983



**P**ower Conversion



**S**mart Drive & Control



**B**attery Charger



**G**reen Energy

# | Power to a Smart Future with High Energy Efficiency

PSBG offers cutting-edge power products and system to innovate cloud computing, network connectivity, client devices, industrial and medical industry, lighting, appliances, and e-mobility with global customers.





# Index

<b>Product Overview and Applications .....</b>	<b>1-2</b>
<b>Product Selection Guide .....</b>	<b>3-8</b>
<b>Configurable Power Supplies .....</b>	<b>9-12</b>
MEG-A (700-3,000 W) .....	11-12
<b>Enclosed Power Supplies .....</b>	<b>13-18</b>
MDS (200-400 W) .....	15-16
MEB (500-1,200 W) .....	17-18
<b>Open Frame Power Supplies .....</b>	<b>19-30</b>
MDS (40-400 W) .....	21-27
MEU (600-650 W) .....	28
MEP (120-200 W) .....	29-30
<b>ATX Power Supply .....</b>	<b>31-32</b>
MDS (350 W) .....	32
<b>Adapters .....</b>	<b>33-42</b>
MDS (5-150 W) .....	35-40
MEA (60-250 W) .....	41-42
<b>Alternate Model List .....</b>	<b>43</b>
<b>Contact Us .....</b>	<b>44</b>
<b>Notes .....</b>	<b>45</b>





# | Delta Medical Power Supplies

Delta provides high quality power supplies with high reliability and performance, including open frame, enclosed, and configurable power supplies and AC adapters. All products conform to major medical safety standards for various healthcare and medical applications.



## Configurable

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



## Enclosed

Encased in strong metal casings, 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 a high performance and reliable solution as an internal power supply for various types of medical equipment.



## ATX

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



## Adapters

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

# | Applications



 Da Vinci Robot



 X-Ray



 CT Scan



 Ultrasound



 Dialysis



 Medical Display



 Dental



 IVD



 Patient Bed



 Aesthetic



 Respiratory



 CPAP



# | Product Selection Guide

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

Product Type	Series	Model Name	Module Slots	Output Voltage	Output Power (Max)	Page
Configurable Power Supply	MEG-A	MEG-700A3	3 Slots	Single Output Single Slot: 2V - 60V Triple Slot: 8V - 60V	700 W	11
		MEG-1K2A4	4 Slots		1,200 W	
		MEG-2K1A6	6 Slots	Dual Output Single Slot: 3.3V - 30V	2,100 W	12
		MEG-3K0A9	9 Slots		3,000 W	

## Model Numbering

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



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Product Type	Series	Model Name	CC Code	Input Terminal	Output Terminal	Output Voltage	Convection		Forced Air		Page	
							Output Current	Output Power	Output Current	Output Power		
Enclosed Power Supply	MDS	MDS-200ADB12	AA	Molex 171813-9998	JST B4P-VH	12 V	9.17 A	110 W	16.67 A	200 W	15	
		MDS-250ADB12	AA	Molex 26-62-4030	M3 PCB terminal		11.25 A	135 W	20.84 A	250 W		
		MDS-250ADB12	AB	Molex 26-62-4030	M3 PCB terminal		11.25 A	135 W	20.84 A	250 W		
		MDS-300ADB12	AA	Molex 26-62-4030	M3 PCB terminal		15.83 A	190 W	25.0 A	300 W		
		MDS-400ADB12	AA	Molex 171813-9998	M3 PCB terminal			33.33 A	400 W			
		MDS-300ADB18	AA	Molex 171813-9998	M3 PCB terminal	18 V	10.55 A	190 W	16.66 A	300 W		
		MDS-300ADB18	AB	Molex 171813-9998	M3 PCB terminal		10.55 A	190 W	16.66 A	300 W		
		MDS-200ADB24	AA	Molex 171813-9998	JST B4P-VH	24 V	5.0 A	120 W	8.33 A	200 W	16	
		MDS-250ADB24	AA	Molex 171813-9998	M3 PCB terminal		5.62 A	135 W	10.41 A	250 W		
		MDS-300ADB24	AA	Molex 26-62-4030	M3 PCB terminal		8.75 A	210 W	12.5 A	300 W		
		MDS-300ADB24	AB	Molex 26-62-4030	M3 PCB terminal		8.75 A	210 W	12.5 A	300 W		
		MDS-400ADB24	AA	Molex 71813-9998	M3 PCB terminal			16.67 A	400 W			
		MDS-400ADB24	AB	Molex 71813-9998	M3 PCB terminal			16.67 A	400 W			
		MDS-300ADB48	AA	Molex 26-62-4030	M3 PCB terminal	48 V	4.375 A	210 W	6.25 A	300 W		
	MDS-300ADB48	AB	Molex 26-62-4030	M3 PCB terminal	4.375 A		210 W	6.25 A	300 W			
	MEB	NEW	MEB-750A12B	AAA	TU-301-SP-SA-AD2(D)V0	M5 PCB terminal	12 V			58.4 A	700 W	17
			MEB-750A12T	AAA	Dinkle DT-2G-B95W-03	M5 PCB terminal				58.4 A	700 W	
			MEB-500A24F	AA	Deca T24-EO3103A302	DT-65-C14W-02	24 V			21.0 A	500 W	
			MEB-750A24B	AAA	TU-301-SP-SA-AD2(D)V0	M5 PCB terminal				31.25 A	750 W	
			MEB-750A24T	AAA	Dinkle DT-2G-B95W-03	M5 PCB terminal			31.25 A	750 W		
MEB-750A48B			AAA	TU-301-SP-SA-AD2(D)V0	M5 PCB terminal	48 V			15.63 A	750 W		
MEB-750A48T			AAA	Dinkle DT-2G-B95W-03	M5 PCB terminal				15.63 A	750 W		
MEB-1K2A24T			ABA	Anytek YK50A0323009G	M5 PCB terminal	24 V			50.0 A	1,200 W	18	
MEB-1K2A42T			ABA	Anytek YK50A0323009G	M5 PCB terminal	42 V			28.5 A	1,200 W		
MEB-1K2A48T			ABA	Anytek YK50A0323009G	M5 PCB terminal	48 V			25.0 A	1,200 W		

## Model Numbering

MDS –	XXX	A	D	B	□	□□
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 <sup>1)</sup>
MDS-200ADB series MDS-250ADB series MDS-300ADB series MDS-400ADB series	200 - 200 W 250 - 250 W 300 - 300 W 400 - 400 W	A - Family A	D - Enclosed	B - Class I 3-pin connector	12 - 12 V 18 - 18 V 24 - 24 V 48 - 48 V	

ME	B –	XXX	A	□	□	□□□
Delta 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 - 500 W	A - Family A	24 - 24 V	F - Front Face	AA - With Remote ON/OFF, with conformal coating
		750 - 750 W		12 - 12 V 24 - 24 V 48 - 48 V	B - C14 T - US Terminal	AAA - With Remote ON/OFF, with conformal coating
		1K2 - 1,200 W		24 - 24 V 42 - 42 V 48 - 48 V	T - US Terminal	ABA - With Remote ON/OFF, with conformal coating

<sup>1)</sup> Refer to technical datasheet

# Product Selection Guide

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Product Type	Series	Model Name	CC Code	Input Terminal	Output Terminal	Output Voltage	Convection		Forced Air		Page	
							Output Current	Output Power	Output Current	Output Power		
Open Frame Power Supply	MDS	MDS-040APS12B	A	JST B2P3-VH	JST B4P-VH	12V	3.33A	40W			21	
		MDS-065APS12B	A	JST B2P3-VH	JST B4P-VH		5.42A	65W				
		MDS-100APS12B	A	JST B2P3-VH	JST B8P-VH		8.33A	100W				
		MDS-100BPS12B	A	JST B2P3-VH	JST B4P-VH	15V	6.67A	80W	8.33A	100W	22	
		MDS-040APS15B	A	JST B2P3-VH	JST B4P-VH		2.67A	40W				
		MDS-065APS15B	A	JST B2P3-VH	JST B4P-VH		4.2A	63W				
		MDS-100APS15B	A	JST B2P3-VH	JST B8P-VH	18V	6.67A	100W			23	
		MDS-100BPS15B	A	JST B2P3-VH	JST B4P-VH		5.3A	80W	6.7A	100W		
		MDS-040APS18B	A	JST B2P3-VH	JST B4P-VH		2.22A	40W				
		MDS-065APS18B	A	JST B2P3-VH	JST B4P-VH	24V	3.61A	65W			24	
		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-040APS24B	A	JST B2P3-VH	JST B4P-VH	12V	1.67A	40W			25	
		MDS-065APS24B	A	JST B2P3-VH	JST B4P-VH		2.71A	65W				
		MDS-100APS24B	A	JST B2P3-VH	JST B8P-VH		4.17A	100W				
		MDS-100BPS24B	A	JST B2P3-VH	JST B4P-VH	Molex 171813-9998	3.3A	80W	4.2A	100W	26	
		MDS-200APB12	AA		JST B4P-VH		10.83A	130W	16.67A	200W		
		MDS-250APB12	AA		M3 PCB terminal		12.5A	150W	20.84A	250W		
		MDS-250APB12	AB		M3 PCB terminal	26-62-4030	12.5A	150W	20.84A	250W	27	
		MDS-300APB12	AA		M3 PCB terminal	Molex 26-62-4030	18.33A	220W	25.0A	300W		
		MDS-400APB12	AA		M3 PCB terminal	Molex 171813-9998	16.67A	200W	33.33A	400W		
		MDS-400APB12	AB		M3 PCB terminal	Molex 171813-9998	16.67A	200W	33.33A	400W	26	
		MDS-300APB18	AA		M3 PCB terminal	Molex 171813-9998	18V	12.22A	220W	16.66A		300W
		MDS-300APB18	AB		M3 PCB terminal	Molex 171813-9998	18V	12.22A	220W	16.66A		300W
		MDS-200APB24	AA		JST B4P-VH	Molex 171813-9998	24V	5.83A	140W	8.33A	200W	27
		MDS-250APB24	AA		M3 PCB terminal	Molex 171813-9998		6.25A	150W	10.41A	250W	
		MDS-250APB24	AB		M3 PCB terminal	Molex 171813-9998		6.25A	150W	10.41A	250W	
		MDS-300APB24	AA		M3 PCB terminal	Molex 26-62-4030	24V	10.0A	240W	12.5A	300W	27
		MDS-300APB24	AE		M3 PCB terminal	Molex 26-62-4030		10.0A	240W	12.5A	300W	
		MDS-400APB24	AA		M3 PCB terminal	Molex 171813-9998		8.33A	200W	16.66A	400W	
		MDS-400APB24	AB		M3 PCB terminal	Molex 171813-9998	8.33A	200W	16.66A	400W	27	
		MDS-200APB36	AA		JST B4P-VH	Molex 171813-9998	36V	3.33A	120W	5.56A		200W
MDS-300APB48	AA		M3 PCB terminal	Molex 26-62-4030	48V	5.0A	240W	6.25A	300W			
MDS-300APB48	AB		M3 PCB terminal	Molex 26-62-4030	48V	5.0A	240W	6.25A	300W			

## Model Numbering

MDS -	XXX	□	P	S	□	B	□
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 <sup>1)</sup>
MDS-040APS series MDS-065APS series MDS-100APS series	040 - 40 W 065 - 65 W 100 - 100 W	A - Family A	P - Open Frame	S - Single Output	12 - 12 V 15 - 15 V 18 - 18 V 24 - 24 V	B - Class I 3-pin connector	
MDS-100BPS series	100 - 100 W	B - Family B					

MDS -	XXX	A	P	B	□	□□
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 <sup>1)</sup>
MDS-200APB series MDS-250APB series MDS-300APB series MDS-400APB series	200 - 200 W 250 - 250 W 300 - 300 W 400 - 400 W	A - Family A	P - Open Frame	B - Class I 3-pin connector	12 - 12 V 18 - 18 V 24 - 24 V 36 - 36 V 48 - 48 V	

<sup>1)</sup> Refer to technical datasheet

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Product Type	Series	Model Name	CC Code	Input Terminal	Output Terminal	Output Voltage	Convection		Forced Air		Page
							Output Current	Output Power	Output Current	Output Power	
Open Frame Power Supply	MEU	MEU-650A12T	AAA	DG128-7.5-03P-14-1001A(H)	M4 PCB terminal	12 V	33.4 A	400 W	50.0 A	600 W	28
		MEU-600C24T	AAA	Anytek YK4020323200G	M5 PCB terminal	24 V	25.0 A	600 W			
		MEU-650A24T	AAA	DG128-7.5-03P-14-1001A(H)	M4 PCB terminal		18.75 A	450 W	27.1 A	650 W	
		MEU-600C48T	AAA	Anytek YK4020323200G	M5 PCB terminal	48 V	12.5 A	600 W			
		MEU-650A48T	AAA	DG128-7.5-03P-14-1001A(H)	M4 PCB terminal		9.375 A	450 W	13.6 A	650 W	
	MEP	MEP-120A12J	BNA	JST B2P3-VH	JST B4P-VH	12 V	9.5 A	114 W			29
		MEP-200A12J	BNA	JST B2P3-VH	JST B6P-VH-B		16.67 A*	200 W*	16.67 A	200 W	
		MEP-120A15J	BNA	JST B2P3-VH	JST B4P-VH	15 V	8.0 A	120 W			
		MEP-120A18J	BNA	JST B2P3-VH	JST B4P-VH	18 V	6.67 A	120 W			30
		MEP-120A24J	BNA	JST B2P3-VH	JST B4P-VH	24 V	5.0 A	120 W			
		MEP-200A24J	BNA	JST B2P3-VH	JST B6P-VH-B		8.34 A*	200 W*	8.34 A	200 W	
		MEP-200A48J	BNA	JST B2P3-VH	JST B6P-VH-B	48 V	4.17 A*	200 W*	4.17 A	200 W	

\* Refer to technical datasheet

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 <sub>SB</sub> , +12V <sub>1</sub> , +12V <sub>2</sub> , -12V, -5V	8.0A, 9.0A, 1.25A, 8.0A, 8.0A, 0.25A, 0.1A	350 W	32

## Model Numbering

ME	U -	XXX	□	□	T	□□□
Delta Medical Power Supply	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
		600 - 600 W	C - Family C	24 - 24 V 48 - 48 V	T - Terminal Block (Class I)	AAA - With Remote ON/OFF, with conformal coating
		650 - 650 W	A - Family A	12 - 12 V 24 - 24 V 48 - 48 V		

ME	P -	XXX	A	□	J	□□□
Delta Medical Power Supply	P - Open Frame	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	Input Connector Type	CC Code
		120 - 120 W	A - Family A	12 - 12 V 15 - 15 V 18 - 18 V 24 - 24 V	J - JST connector	BNA - Delta Standard No conformal coating, no Remote ON/OFF
		200 - 200 W		12 - 12 V 24 - 24 V 48 - 48 V		

MDS -	XXX	A	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 <sup>1)</sup>
	350 - 350 W	A - Family A	D - Enclosed	701 - +3.3V, +5V, +5V <sub>SB</sub> , +12V <sub>1</sub> , +12V <sub>2</sub> , -12V, -5V	

1) Refer to technical datasheet



# Product Selection Guide

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Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page		
Adapter	MDS	MDS-005AAS05	AU	5V	1.0 A	5 W	35		
		MDS-005AAS05	AV		1.0 A	5 W			
		MDS-005AAS05	BU		1.0 A	5 W			
		MDS-005AAS05	BV		1.0 A	5 W			
		MDS-005AAS05	CU		1.0 A	5 W			
		MDS-005AAS05	CV		1.0 A	5 W			
		MDS-030AAC05	AA		3.0 A	15 W			
		MDS-030AAC05	AB		3.0 A	15 W			
		MDS-030AAC05	AC		3.0 A	15 W			
		MDS-030AAC12	AA	12V	2.0 A	24 W	36		
		MDS-030AAC12	AB		2.0 A	24 W			
		MDS-030AAC12	BB		2.0 A	24 W			
		MDS-060BAS12	AB		5.0 A	60 W			
		MDS-080AAS12	AB		6.67 A	80 W			
		MDS-150AAS12	BA		10.0 A	120 W			
		MDS-030AAC15	AA	15V	2.0 A	30 W	37		
		MDS-030AAC15	AB		2.0 A	30 W			
		MDS-030AAC15	AC		2.0 A	30 W			
		MDS-090AAS15	BA		6.0 A	90 W			
		MDS-090AAS15	BE		6.0 A	90 W			
		MDS-090AAS15	FA		6.0 A	90 W			
		MDS-090AAS15	FE		6.0 A	90 W			
		MDS-060BAS19	AA		19V	3.15 A		60 W	38
		MDS-090AAS19	BA			4.73 A		90 W	
		MDS-090AAS19	BE	4.73 A		90 W			
		MDS-090AAS19	FA	4.73 A		90 W			
		MDS-090AAS19	FE	4.73 A		90 W			
		MDS-150AAS19	BA	7.89 A		150 W			
		MDS-150AAS19	FA	7.89 A	150 W				
		MDS-150CAB19	AA		7.9 A	150 W			

## Model Numbering

MDS -	XXX	□	A	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			12 - 12V		

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 <sup>1)</sup>
MDS-030AAC series	030 - 30W		05 - 5V 12 - 12V 15 - 15V 24 - 24V	

MDS -	XXX	C	A	B	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 <sup>1)</sup>
	150 - 150W	C - Family C	A - Adapter	B - Class I C6	19 - 19V	

1) Refer to technical datasheet

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Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page	
Adapter	MDS	MDS-030AAC24	AA	24V	1.25 A	30 W	39	
		MDS-030AAC24	AC		1.25 A	30 W		
		MDS-060BAS24	AG		2.5 A	60 W		
		MDS-090AAS24	BA		3.75 A	90 W		
		MDS-090AAS24	BE		3.75 A	90 W		
		MDS-090AAS24	FA		3.75 A	90 W		
		MDS-090AAS24	FE		3.75 A	90 W		
		MDS-090BAS24	AB		3.75 A	90 W		40
		MDS-150AAS24	BA		6.25 A	150 W		
		MDS-150AAS24	BE		6.25 A	150 W		
	MDS-150AAS24	FA	6.25 A	150 W				
	MEA	MEA-065A12C	A-A	12V	5.0 A	60 W	41	
			6-A		5.0 A	60 W		
			V-A		6.75 A	81 W		
		MEA-065A15C	A-A	15V	4.33 A	65 W	42	
			V-A		6.0 A	90 W		
		MEA-065A19C	A-A	19V	3.42 A	65 W	42	
			V-A		4.74 A	90 W		
		MEA-065A24C	A-A	24V	2.71 A	65 W		
			6-A		2.71 A	65 W		
V-A			3.75 A		90 W			
V-A	3.75 A		90 W					
H-A	10.42 A		250 W					

## Model Numbering

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

ME	A -	XXX	A	□	C	CC Code <sup>1)</sup>		
Delta Medical Power Supply	A - Desktop Adapter	Max power wattage in the product series. May be lower at some conditions.	Family Code	Output Voltage	Input Connector Type	Output Plug Spec	-	A
		065 - 65 W	A - Family A	12 - 12V 15 - 15V 19 - 19V 24 - 24V	C - C14	A - Tuning Fork: 5.5 x 2.5 x 10 mm, 180°, 1.2 m 6 - 4-pin DIN <sup>2)</sup>	Delta Standard	A - Tuning Fork / DIN / Other
		090 - 90 W				V - 5.5 x 2.5 x 11 mm, 90°, 1.2 m		
		250 - 250 W		24 - 24V		H - 6-pin mini-fit: 1.5 m		

1) Refer to technical datasheet  
2) 12V and 24V model

# Configurable Power Supplies



## MEG-A

Configurable power supply with flexible modular design and adjustable output voltage range from 2-60 V

**Power Range: 700-3,000 W**

## Applications



X-Ray



CT Scan



IVD



Ultrasound



Da Vinci  
Robot





# MEG-A (2V - 60V)

- Compact size and High Power Density
- 2 × MOPP isolation
- Output selectable from 2V<sub>DC</sub> to 60V<sub>DC</sub>
- Analog Voltage Trimming
- 3 Slots Modules Configurable
- Current sharing for single slot modules
- Compliant with IEC 60601-1-2 Ed. 4 requirements

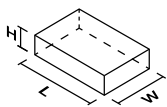


## Applications



Output	MEG-700A3	MEG-1K2A4
Output Slots	3 Slots	4 Slots
Output Power	700W	1,200W
Line Regulation		± 0.5%
Load Regulation		± 1%
Ripple & Noise		< 1% pk-pk Vrated or 100mV, which is larger
Hold-up Time		12 ms @ rated load, with nominal input range
Dynamic Response		± 5% @ with 50-100% load change
Remote Sense		Up to 500mV compensation for voltage drop across
<b>Output Module</b>		
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 Power (Max)	Single Output: Single Slot: 300W; Triple Slot: 700W Dual Output: Single Slot: 180W	Single Output: Single Slot: 300W; Triple Slot: 1200W Dual Output: Single Slot: 240W
<b>Input</b>		
Input Voltage Range	90-264 V <sub>AC</sub>	
Input Frequency	47-63Hz	
Input Current	< 8.5A	
Input Surge Voltage (Max)	300 V <sub>AC</sub> for 100ms	
Efficiency	115 V <sub>AC</sub>	91.0%
	230 V <sub>AC</sub>	93.0%
Inrush Current (Cold Start)	230 V <sub>AC</sub>	40A
Power Factor	115 V <sub>AC</sub>	> 0.95 @ full load
	230 V <sub>AC</sub>	
Patient Leakage Current <sup>1)</sup>	< 0.1mA @ NC, < 0.5mA @ SFC	
Earth Leakage Current <sup>1)</sup>	< 0.3mA @ NC, < 1mA @ SFC	
<b>Mechanical</b>		
Dimensions (L × W × H)	mm	215.9 × 88.9 × 41.5
	inch	8.50 × 3.50 × 1.63
Unit Weight	kg	0.80
	lb	1.76
MTBF <sup>2)</sup>	500,000hrs	
EMC & Emissions	EN 55011/EN 55032, FCC Title 47: Class B	
<b>Environment</b>		
Operating Temperature <sup>3)</sup>	-20°C to +70°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity	5 to 95% RH (Non-Condensing)	
Operating Altitude	0 to 5,000m (0 to 16,400ft)	
<b>Medical Rating</b>		
Float Rating	B	
MOPP	2 × MOPP	

### Dimensions Reference



### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) For MEG-700A3, MTBF as per Telcordia SR-332 (I/P: 160V<sub>AC</sub>, Ta: 35°C).  
For MEG-1K2A4, MTBF as per Telcordia SR-332 (I/P: 160V<sub>AC</sub>, O/P: 1,200W, Ta: 35°C).  
For MEG-2K1A6, MTBF as per Telcordia SR-332 (I/P: 160V<sub>AC</sub>, O/P: 1,800W, Ta: 35°C).  
For MEG-3K0A9, MTBF as per Telcordia SR-332 (I/P: 180V<sub>AC</sub>, Ta: 35°C)
- 3) Refer power de-rating in the product datasheet.

MEG-2K1A6	MEG-3K0A9
6 Slots	9 Slots
2,100W	3,000W
± 0.5%	
± 1%	
< 1% pk-pk Vrated or 100mV, which is larger	
12ms @ rated load, with nominal input range	
± 5% @ with 50-100% load change	
Up to 500mV compensation for voltage drop across	
Single Output / Dual Output	
Single Output: Single Slot: 2V - 60V; Triple Slot: 8V - 60V	
Dual Output: Single Slot: 3.3V - 30V	
Single Output: Single Slot: 300W; Triple Slot: 1200W	
Dual Output: Single Slot: 240W	
90-264 V <sub>AC</sub>	
47-63 Hz	
< 15A	< 20A
300 V <sub>AC</sub> for 100ms	
90.0%	
93.0%	
40A	
> 0.95 @ full load	
< 0.1mA @ NC, < 0.5mA @ SFC	
< 0.3mA @ NC, < 1mA @ SFC	< 0.4mA @ NC, < 1mA @ SFC
254 × 127 × 40.5	254 × 181 × 40.5
10.00 × 5.00 × 1.59	10.00 × 7.13 × 1.59
2.00	2.50
4.41	5.51
500,000 hrs	
EN 55011/EN 55032, FCC Title 47: Class B	
-20°C to +70°C	
-40°C to +85°C	
5 to 95% RH (Non-Condensing)	
0 to 5,000m (0 to 16,400ft)	
B	
2 × MOPP	



# Enclosed Power Supplies



## MDS

General use for medical application

Power Range: 200-400 W



## MEB

High power output with built-in fan cooling

Power Range: 500-1,200 W

## Applications



Dental



Dialysis



IVD



Patient  
Bed



Respiratory



Ultrasound



Aesthetic



X-Ray



# MDS (12 V, 18 V, 24 V, 48 V)



- 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

## Applications



Dental



Dialysis



IVD



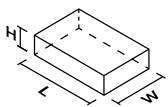
Patient Bed



Respiratory

Output	MDS-200ADB12 AA	MDS-250ADB12 A□	MDS-300ADB12 AA	MDS-400ADB12 AA	MDS-300ADB18 A□	
Output Voltage	12 V	12 V	12 V	12 V	18 V	
Output Current (Max)	9.17 A (Convection) 16.67 A (with 8.5 CFM Forced Air)	11.25 A (Convection) 20.84 A (with 10 CFM Forced Air)	15.83 A (Convection) 25.0 A (with 10 CFM Forced Air)	33.33 A (with 20 CFM Forced Air)	10.55 A (Convection) 16.66 A (with 10 CFM Forced Air)	
Output Power	110 W (Convection) 200 W (with 8.5 CFM Forced Air)	135 W (Convection) 250 W (with 10 CFM Forced Air)	190 W (Convection) 300 W (with 10 CFM Forced Air)	400 W (with 20 CFM Forced Air)	190 W (Convection) 300 W (with 10 CFM Forced Air)	
Load Regulation	± 1%					
Ripple & Noise	1% typ. pk-pk Vrated @ full load			150 mV pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load	
<b>Input</b>						
Input Voltage Range	90-264 V <sub>AC</sub>					
Input Frequency	47-63 Hz					
Efficiency	115 V <sub>AC</sub> (60 Hz)	91.0% typ.	89.45% typ.	91.3% typ.	89.5% typ.	92.5% typ.
	230 V <sub>AC</sub> (50 Hz)	93.0% typ.	90.5% typ.	92.6% typ.	91.5% typ.	93.5% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC				
<b>Mechanical</b>						
Dimensions (L × W × H)	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
	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
	lb	0.76	1.35	1.35	1.35	1.35
MTBF <sup>2)</sup>		800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs	800,000 hrs
EMC & Emissions	EN 55011/EN 55032, FCC Title 47: Class B					
<b>Environment</b>						
Operating Temperature <sup>3)</sup>	-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)					
<b>Medical Rating</b>						
Float Rating	BF					
MOPP	2 × MOPP					

### Dimensions Reference



### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load, Ta: 35°C).  
For MDS-400ADB12 A□, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load with 20 CFM Forced Air, Ta: 35°C).  
For MDS-400ADB24 A□, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load with 10 CFM Forced Air, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.



MDS-200ADB24 AA	MDS-250ADB24 AA	MDS-300ADB24 A□	MDS-400ADB24 A□	MDS-300ADB48 A□
24 V	24 V	24 V	24 V	48 V
5.0 A (Convection) 8.33 A (with 5.5 CFM Forced Air)	5.62 A (Convection) 10.41 A (with 10 CFM Forced Air)	8.75 A (Convection) 12.5 A (with 10 CFM Forced Air)	16.67 A (with 16 CFM Forced Air)	4.375 A (Convection) 6.25 A (with 10 CFM Forced Air)
120 W (Convection) 200 W (with 5.5 CFM Forced Air)	135 W (Convection) 250 W (with 10 CFM Forced Air)	210 W (Convection) 300 W (with 10 CFM Forced Air)	400 W (with 16 CFM Forced Air)	210 W (Convection) 300 W (with 10 CFM Forced Air)
± 1%				
1% typ. pk-pk Vrated @ full load				
90-264 V <sub>AC</sub>				
47-63 Hz				
92.0% typ.	91.85% typ.	93.0% typ.	92.0% typ.	92.5% typ.
93.0% typ.	92.98% typ.	94.0% typ.	93.0% typ.	93.5% typ.
Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC				
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
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
0.35	0.61	0.61	0.61	0.61
0.76	1.35	1.35	1.35	1.35
800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs	800,000 hrs
EN 55011/EN 55032, FCC Title 47: Class B				
-10°C to +70°C				
-40°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 5,000 m (0 to 16,400 ft)				
BF				
2 × MOPP				

# MEB (12V, 24V, 48V)

- 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

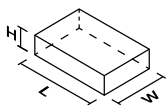


## Applications



		NEW			
Output		MEB-750A12□ AAA	MEB-500A24F AA	MEB-750A24□ AAA	MEB-750A48□ AAA
Output Voltage		12V	24V	24V	48V
Output Current (Max)		58.4A	21.0A	31.25A	15.63A
Output Power		700W	504W	750W	750W
Load Regulation		< 2%	< 150mV	< 2%	< 2%
Ripple & Noise		1% pk-pk Vrated @ rated load	< 300mVpp @ 0°C to +50°C	1% pk-pk Vrated @ rated load	
Input					
Input Voltage Range		85-264 V <sub>AC</sub>	90-264 V <sub>AC</sub>	85-264 V <sub>AC</sub>	
Input Frequency		47-63Hz			
Efficiency	230 V <sub>AC</sub> (50Hz)	90.5% typ.	92.0% typ.	94.0% typ.	
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: 0.3mA typ. @ NC, 1mA typ. @ SFC Output-PE: 0.1mA typ. @ NC, 0.5mA typ. @ SFC	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 (L × W × H)	mm	177.8 × 101.6 × 40	165.3 × 85.2 × 41	177.8 × 101.6 × 40	177.8 × 101.6 × 40
	inch	7.00 × 4.00 × 1.57	6.50 × 3.35 × 1.61	7.00 × 4.00 × 1.57	7.00 × 4.00 × 1.57
Unit Weight	kg	1.10	0.66	1.10	1.10
	lb	2.43	1.46	2.43	2.43
MTBF <sup>2)</sup>		> 500,000hrs	> 700,000hrs	> 500,000hrs	
EMC & Emissions		EN 55011, EN 55032, FCC Title 47: Class B	EN 55011 & Compliant with EN 55032, FCC Title 47: Class B	EN 55011, EN 55032, FCC Title 47: Class B	
Environment					
Operating Temperature <sup>3)</sup>		-20°C to +70°C			
Storage Temperature		-40°C to +85°C	-30°C to +80°C	-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	20 to 90% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 5,000m (0 to 16,400ft)	IEC 60601-1: 0 to 3,000m (0 to 9,840ft) IEC 60950-1 & IEC 62368-1: 0 to 5,000m (0 to 16,400ft)	0 to 5,000m (0 to 16,400ft)	
Medical Rating					
Float Rating		BF			
MOPP		2 × MOPP			

### Dimensions Reference



### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MEB-500A24F, MTBF as per Telcordia SR-332 (I/P: 115V<sub>AC</sub>, O/P: 100% load, Ta: 25°C).  
MEB-750A12□, MEB-750A24□ and MEB-750A48□, MTBF as per Telcordia SR-332 (I/P: 115V<sub>AC</sub>, O/P: 100% load, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.

# MEB (24 V, 42 V, 48 V)



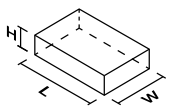
- Up to 1200W in 5" × 8.03" × 1.59" package
- Full power from 90 V<sub>AC</sub> to 264 V<sub>AC</sub>, up to 50°C ambient
- 2 × MOPP isolation, Suitable for type BF medical products
- Current sharing and 5V/2A standby output
- PMBus Ver 1.3 supported
- Intelligent fan speed control
- Class B Conducted and Radiated EMI

## Applications



Output		MEB-1K2A24T ABA	MEB-1K2A42T ABA	MEB-1K2A48T ABA
Output Voltage		24 V	42 V	48 V
Output Current (Max)		50.0 A	28.5 A	25.0 A
Output Power		1200 W	1200 W	1200 W
Load Regulation		2%		
Ripple & Noise		1% typ. pk-pk V <sub>rated</sub> @ rated load		
Input				
Input Voltage Range		85-264 V <sub>AC</sub>		
Input Frequency		47-63 Hz		
Efficiency	115 V <sub>AC</sub> (60 Hz)	90.0% typ.	90.9% typ.	91.5% typ.
	230 V <sub>AC</sub> (50 Hz)	93.0% typ.	93.2% typ.	94.0% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.3 mA @ NC, < 1 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC		
Mechanical				
Dimensions (L × W × H)	mm	204 × 127 × 40.5	204 × 127 × 40.5	204 × 127 × 40.5
	inch	8.03 × 5.00 × 1.59	8.03 × 5.00 × 1.59	8.03 × 5.00 × 1.59
Unit Weight	kg	1.50	1.50	1.50
	lb	3.30	3.30	3.30
MTBF <sup>2)</sup>		> 500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B		
Environment				
Operating Temperature <sup>3)</sup>		-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		

### Dimensions Reference



#### Notes

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



# Open Frame Power Supplies



## MDS

Standard footprint offers versatile output and wattage

**Power Range:** 40-400 W



## MEU

U-Frame outline offers convection or forced air cooling

**Power Range:** 600-650 W



## MEP

High power density in a small footprint and low profile. Applicable to Class I/II applications

**Power Range:** 120-200 W

## Applications



Dental



Medical Display



Respiratory



Patient Bed



IVD



Ultrasound



Dialysis

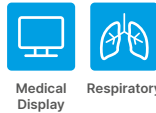


# MDS (12 V, 15 V)



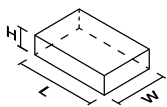
- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

## Applications



Output	MDS-040APS12B A	MDS-065APS12B A	MDS-100APS12B A	MDS-100BPS12B A	
Output Voltage	12 V	12 V	12 V	12 V	
Output Current (Max)	3.33 A	5.42 A	8.33 A	6.67 A (Convection) 8.33 A (with 10CFM Forced Air)	
Output Power	40 W	65 W	100 W	80 W (Convection) 100 W (With 10 CFM Forced Air)	
Load Regulation	± 1%				
Ripple & Noise	22.8 mV pk-pk @ full load	21.6 mV pk-pk @ full load	25 mV pk-pk @ full load	76 mV pk-pk @ full load	
<b>Input</b>					
Input Voltage Range	90-264 V <sub>AC</sub>				
Input Frequency	47-63 Hz				
Efficiency	115 V <sub>AC</sub> 230 V <sub>AC</sub>	86.5% typ.	87.5% typ.	89.2% typ.	
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1 mA @ NC, < 0.3 mA @ SFC			
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	-	< 0.15 mA @ NC, < 0.3 mA @ SFC		
<b>Mechanical</b>					
Dimensions (L × W × H)	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
	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
	lb	0.18	0.29	0.46	0.33
MTBF <sup>2)</sup>		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				
<b>Environment</b>					
Operating Temperature <sup>3)</sup>	-10°C to +70°C				
Storage Temperature	-40°C to +85°C				
Operating Humidity	10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)		10 to 95% RH (Non-Condensing)	
Operating Altitude	0 to 3,000 m (0 to 9,840 ft)			0 to 5,000 m (0 to 16,400 ft)	
<b>Medical Rating</b>					
Float Rating	BF				
MOPP	2 × MOPP				

### Dimensions Reference



#### 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-040APS15B A	MDS-065APS15B A	MDS-100APS15B A	MDS-100BPS15B A
15 V	15 V	15 V	15 V
2.67 A	4.2 A	6.67 A	5.3 A (Convection) 6.7 A (with 10 CFM Forced Air)
40 W	63 W	100 W	80 W (Convection) 100 W (with 10 CFM Forced Air)
± 1%			
16.4 mV pk-pk @ full load	18 mV pk-pk @ full load	35.2 mV pk-pk @ full load	51.2 mV pk-pk @ full load
90-264 V <sub>AC</sub>			
47-63 Hz			
87.2% typ.	89.2% typ.	90.6% typ.	88.2% typ.
< 0.1 mA @ NC, < 0.3 mA @ SFC			
-	< 0.15 mA @ NC, < 0.3 mA @ SFC		
76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25
0.08	0.13	0.21	0.15
0.18	0.29	0.46	0.33
3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs
EN 55011/EN 55032, FCC Title 47: Class B			
-10°C to +70°C			
-40°C to +85°C			
10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)		10 to 95% RH (Non-Condensing)
	0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)
BF			
2 × MOPP			



# MDS (18 V, 24 V)



- 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

## Applications



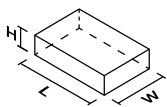
Medical Display



Respiratory

Output	MDS-040APS18B A	MDS-065APS18B A	MDS-100APS18B A	MDS-100BPS18B A	
Output Voltage	18 V	18 V	18 V	18 V	
Output Current (Max)	2.22 A	3.61 A	5.55 A	4.4 A (Convection) 5.5 A (with 10 CFM Forced Air)	
Output Power	40 W	65 W	100 W	80 W (Convection) 100 W (with 10 CFM Forced Air)	
Load Regulation	± 1%				
Ripple & Noise	14.8 mV pk-pk @ full load	20.8 mV pk-pk @ full load	28.8 mV pk-pk @ full load	88 mV pk-pk @ full load	
<b>Input</b>					
Input Voltage Range	90-264 V <sub>AC</sub>				
Input Frequency	47-63 Hz				
Efficiency	115 V <sub>AC</sub> 230 V <sub>AC</sub>	86.9% typ.	87.7% typ.	91.24% typ.	
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1 mA @ NC, < 0.3 mA @ SFC			
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	-	< 0.15 mA @ NC, < 0.3 mA @ SFC		
<b>Mechanical</b>					
Dimensions (L × W × H)	mm	76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
	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
	lb	0.18	0.29	0.46	0.33
MTBF <sup>2)</sup>		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				
<b>Environment</b>					
Operating Temperature <sup>3)</sup>	-10°C to +70°C				
Storage Temperature	-40°C to +85°C				
Operating Humidity	10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)		10 to 95% RH (Non-Condensing)	
Operating Altitude	0 to 3,000 m (0 to 9,840 ft)			0 to 5,000 m (0 to 16,400 ft)	
<b>Medical Rating</b>					
Float Rating	BF				
MOPP	2 × MOPP				

### Dimensions Reference



#### 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-040APS24B A	MDS-065APS24B A	MDS-100APS24B A	MDS-100BPS24B A
24V	24V	24V	24V
1.67A	2.71A	4.17A	3.3A (Convection) 4.2A (with 10CFM Forced Air)
40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)
± 1%			
34 mV pk-pk @ full load	32.8 mV pk-pk @ full load	55.2 mV pk-pk @ full load	58.4 mV pk-pk @ full load
90-264 V <sub>AC</sub>			
47-63 Hz			
86.3% typ.	88.4% typ.	91.08% typ.	89.3% typ.
< 0.1mA @ NC, < 0.3mA @ SFC			
-	< 0.15mA @ NC, < 0.3mA @ SFC		
76.2 × 50.8 × 23	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
3.00 × 2.00 × 0.91	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25
0.08	0.13	0.21	0.15
0.18	0.29	0.46	0.33
3,000,000 hrs	2,500,000 hrs	3,000,000 hrs	1,000,000 hrs
EN 55011/EN 55032, FCC Title 47: Class B			
-10°C to +70°C			
-40°C to +85°C			
10 to 95% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)		10 to 95% RH (Non-Condensing)
	0 to 3,000m (0 to 9,840ft)		0 to 5,000m (0 to 16,400ft)
BF			
2 × MOPP			

# MDS (12 V, 18 V, 24 V)



- 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

## Applications



Dental



Dialysis



IVD



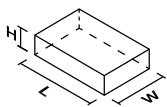
Patient  
Bed



Respiratory

Output		MDS-200APB12 AA	MDS-250APB12 A□	MDS-300APB12 AA	MDS-400APB12 A□
Output Voltage		12 V	12 V	12 V	12 V
Output Current (Max)		10.83 A (Convection) 16.67 A (with 8.5 CFM Forced Air)	12.5 A (Convection) 20.84 A (with 10 CFM Forced Air)	18.33 A (Convection) 25.0 A (with 10 CFM Forced Air)	16.67 A (Convection) 33.33 A (with 16 CFM Forced Air)
Output Power		130 W (Convection) 200 W (with 8.5 CFM Forced Air)	150 W (Convection) 250 W (with 10 CFM Forced Air)	220 W (Convection) 300 W (with 10 CFM Forced Air)	200 W (Convection) 400 W (with 16 CFM Forced Air)
Load Regulation		± 2.5%		± 1%	
Ripple & Noise		1% typ. pk-pk Vrated @ full load			
Input					
Input Voltage Range		90-264 V <sub>AC</sub>			
Input Frequency		47-63 Hz			
Efficiency	115 V <sub>AC</sub> (60 Hz)	91.0% typ.	89.45% typ.	91.3% typ.	89.5% typ.
	230 V <sub>AC</sub> (50 Hz)	93.0% typ.	90.5% typ.	92.6% typ.	91.5% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC			
Mechanical					
Dimensions (L × W × H)	mm	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6
	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
Unit Weight	kg	0.20	0.41	0.41	0.41
	lb	0.44	0.90	0.90	0.90
MTBF <sup>2)</sup>		800,000 hrs		500,000 hrs	
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B			
Environment					
Operating Temperature <sup>3)</sup>		-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		BF			
MOPP		2 × MOPP			

### Dimensions Reference



### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load for Convection, Ta: 35°C).  
For MDS-400APB12 A□, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load with 16 CFM Forced Air, Ta: 35°C).  
For MDS-300APB18 A□, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load for Convection, Ta: 35°C).  
For MDS-400APB24 A□, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load with 10 CFM Forced Air, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.

MDS-300APB18 A□	MDS-200APB24 AA	MDS-250APB24 A□	MDS-300APB24 A□	MDS-400APB24 A□
18 V	24 V	24 V	24 V	24 V
12.22 A (Convection) 16.66 A (with 10 CFM Forced Air)	5.83 A (Convection) 8.33 A (with 5.5 CFM Forced Air)	6.25 A (Convection) 10.41 A (with 10 CFM Forced Air)	10.0 A (Convection) 12.5 A (with 10 CFM Forced Air)	16.66 A (with 10 CFM Forced Air)
220 W (Convection) 300 W (with 10 CFM Forced Air)	140 W (Convection) 200 W (with 5.5 CFM Forced Air)	150 W (Convection) 250 W (with 10 CFM Forced Air)	240 W (Convection) 300 W (with 10 CFM Forced Air)	400 W (with 10 CFM Forced Air)
	± 2.5%		± 1%	
1% typ. pk-pk Vrated @ full load				
90-264 V <sub>AC</sub>				
47-63 Hz				
92.5% typ.	92.0% typ.	91.85% typ.	93.0% typ.	92.0% typ.
93.5% typ.	93.0% typ.	92.98% typ.	94.0% typ.	93.0% typ.
Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC				
127.3 × 76.5 × 36.6	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6	127.3 × 76.5 × 36.6
5.01 × 3.01 × 1.44	4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44	5.01 × 3.01 × 1.44
0.41	0.20	0.41	0.41	0.41
0.90	0.44	0.90	0.90	0.90
	800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs
EN 55011/EN 55032, FCC Title 47: Class B				
-10°C to +70°C				
-40°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 5,000 m (0 to 16,400 ft)				
BF				
2 × MOPP				



# MDS (36 V, 48 V)



- 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

## Applications



Dental



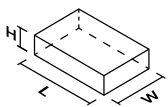
Respiratory



Patient  
Bed

Output		MDS-200APB36 AA	MDS-300APB48 A□
Output Voltage		36 V	48 V
Output Current (Max)		3.33 A (Convection) 5.56 A (with 5.5 CFM Forced Air)	5.0 A (Convection) 6.25 A (with 10 CFM Forced Air)
Output Power		120 W (Convection) 200 W (with 5.5 CFM Forced Air)	240 W (Convection) 300 W (with 10 CFM Forced Air)
Load Regulation		± 2.5%	± 1%
Ripple & Noise		1% typ. pk-pk Vrated @ full load	
Input			
Input Voltage Range		90-264 V <sub>AC</sub>	
Input Frequency		47-63 Hz	
Efficiency	115 V <sub>AC</sub> (60 Hz)	91.5% typ.	92.5% typ.
	230 V <sub>AC</sub> (50 Hz)	94.0% typ.	93.5% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC	
Mechanical			
Dimensions (L × W × H)	mm	101.9 × 51.1 × 36.6	127.3 × 76.5 × 36.6
	inch	4.01 × 2.01 × 1.44	5.01 × 3.01 × 1.44
Unit Weight	kg	0.20	0.41
	lb	0.44	0.90
MTBF <sup>2)</sup>		800,000 hrs	
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B	
Environment			
Operating Temperature <sup>3)</sup>		-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		BF	
MOPP		2 × MOPP	

### Dimensions Reference



#### Notes

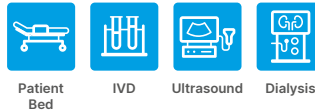
- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load for Convection, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.

# MEU (12V, 24V, 48V)



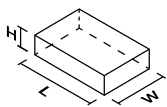
- Convection cooled
- Full Power up to 50°C Ambient
- 2 × MOPP isolation
- Suitable for type BF medical products
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- PMBus Ver 1.3 supported (for MEU-600C□T)
- Up to 500Khrs MTBF
- Normal and Reversed Option for Remote On/Off and Power Good Signal

## Applications



Output	MEU-650A12T AAA	MEU-600C24T AAA	MEU-650A24T AAA	MEU-600C48T AAA	MEU-650A48T AAA	
Output Voltage	12V	24V	24V	48V	48V	
Output Current (Max)	33.4 A (Convection) 50.0 A (with 11.8 CFM Forced Air)	25.0 A	18.75 A (Convection) 27.1 A (with 6.9 CFM Forced Air)	12.5 A	9.375 A (Convection) 13.6 A (with 11.8 CFM Forced Air)	
Output Power	400 W (Convection) 600 W (with 11.8 CFM Forced Air)	600 W	450 W (Convection) 650 W (with 6.9 CFM Forced Air)	600 W	450 W (Convection) 650 W (with 6.9 CFM Forced Air)	
Load Regulation	2%					
Ripple & Noise	1% typ. pk-pk Vrated @ rated load (400 W) 1.5% Vrated pk-pk @ rated load (600 W)	1% typ. pk-pk Vrated @ rated load	1% typ. pk-pk Vrated @ rated load (450 W) 1.5% Vrated pk-pk @ rated load (650 W)	1% typ. pk-pk Vrated @ rated load	1% typ. pk-pk Vrated @ rated load (450 W) 1.5% Vrated pk-pk @ rated load (650 W)	
<b>Input</b>						
Input Voltage Range	90-264 V <sub>AC</sub>	85-264 V <sub>AC</sub>	90-264 V <sub>AC</sub>	85-264 V <sub>AC</sub>	90-264 V <sub>AC</sub>	
Input Frequency	47-63 Hz					
Efficiency	115 V <sub>AC</sub> (60 Hz)	92.0% typ.	92.5% typ.	94.5% typ.	94.0% typ.	95.0% typ.
	230 V <sub>AC</sub> (50 Hz)	93.0% typ.	94.0% typ.	95.5% typ.	95.0% typ.	96.0% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.3 mA @ NC, < 1 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC				
<b>Mechanical</b>						
Dimensions (L × W × H)	mm	152.4 × 101.6 × 40	203.2 × 127 × 40	152.4 × 101.6 × 40	203.2 × 127 × 40	152.4 × 101.6 × 40
	inch	6.00 × 4.00 × 1.57	8.00 × 5.00 × 1.57	6.00 × 4.00 × 1.57	8.00 × 5.00 × 1.57	6.00 × 4.00 × 1.57
Unit Weight	kg	0.80	1.30	0.80	1.30	0.80
	lb	1.76	2.87	1.76	2.87	1.76
MTBF <sup>2)</sup>	500,000 hrs					
EMC & Emissions	EN 55011/EN 55032, FCC Title 47: Class B					
<b>Environment</b>						
Operating Temperature <sup>3)</sup>	-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)					
<b>Medical Rating</b>						
Float Rating	BF					
MOPP	2 × MOPP					

### Dimensions Reference



#### Notes

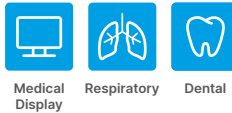
- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load for Convection, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.

# MEP (12 V, 15 V, 18 V, 24 V, 48 V)

- Suitable for type BF medical products
- 2 × MOPP isolation
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B conducted and radiated EMI
- Applicable to Class I/II system

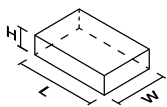


## Applications



		NEW	NEW	NEW
		MEP-120A12J BNA	MEP-200A12J BNA	MEP-120A15J BNA
Output		12 V	12 V	15 V
Output Voltage		9.5 A	16.67 A	8.0 A
Output Current (Max)		114 W	200 W	120 W
Output Power		± 1%	2%	± 1%
Load Regulation		100 mVpp	1% typ. pk-pk Vrated @ rated load	120 mVpp
Ripple & Noise		<b>Input</b>		
Input Voltage Range		90-264 V <sub>AC</sub>		
Input Frequency		47-63 Hz		
Efficiency	115 V <sub>AC</sub> (60 Hz)	91.0% typ.	92.4% typ.	91.5% typ.
	230 V <sub>AC</sub> (50 Hz)	93.5% typ.	93.8% typ.	93.5% typ.
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	Input-PE: < 0.1 mA @ NC, < 1 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC	Input-PE: < 71 μA @ NC, < 156 μA @ SFC Output-PE: < 71 μA @ NC, < 159 μA @ SFC	Input-PE: < 0.1 mA @ NC, < 1 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC
<b>Mechanical</b>				
Dimensions (L × W × H)	mm	76.2 × 50.8 × 31	101.6 × 50.8 × 28.5	76.2 × 50.8 × 31
	inch	3.00 × 2.00 × 1.22	4.00 × 2.00 × 1.12	3.00 × 2.00 × 1.22
Unit Weight	kg	0.14	0.21	0.14
	lb	0.31	0.46	0.31
MTBF <sup>2)</sup>		700,000 hrs	1,000,000 hrs	700,000 hrs
EMC & Emissions		CISPR 11 / EN 55032		
<b>Environment</b>				
Operating Temperature <sup>3)</sup>		-30°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)		
<b>Medical Rating</b>				
Float Rating		BF		
MOPP		2 × MOPP		

### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub> & 230 V<sub>AC</sub>, Ta: 25°C).  
For MEP-200A□J BNA, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 170 W for Convection, Ta: 35°C).
- 3) Refer power de-rating in the product datasheet.

NEW		NEW		NEW		NEW	
MEP-120A18J BNA		MEP-120A24J BNA		MEP-200A24J BNA		MEP-200A48J BNA	
18 V		24 V		24 V		48 V	
6.67 A		5.0 A		8.34 A		4.17 A	
120 W		120 W		200 W		200 W	
± 1%				2%			
150mVpp				1% typ. pk-pk Vrated @ rated load			
90-264 V <sub>AC</sub>							
47-63 Hz							
92.0% typ.				93.3% typ.		93.8% typ.	
94.0% typ.				94.7% typ.		95.4% typ.	
Input-PE: < 0.1mA @ NC, < 1mA @ SFC Output-PE: < 0.1mA @ NC, < 0.5 mA @ SFC				Input-PE: < 71µA @ NC, < 156 µA @ SFC Output-PE: < 71µA @ NC, < 159 µA @ SFC			
76.2 × 50.8 × 31		76.2 × 50.8 × 31		101.6 × 50.8 × 28.5		101.6 × 50.8 × 28.5	
3.00 × 2.00 × 1.22		3.00 × 2.00 × 1.22		4.00 × 2.00 × 1.12		4.00 × 2.00 × 1.12	
0.14		0.14		0.21		0.21	
0.31		0.31		0.46		0.46	
700,000 hrs				1,000,000 hrs			
CISPR 11 / EN 55032							
-30°C to +70°C							
-40°C to +85°C							
5 to 95% RH (Non-Condensing)							
0 to 5,000m (0 to 16,400 ft)							
BF							
2 × MOPP							



# ATX Power Supply



## MDS

Medical ATX power supply with built-in fan cooling

Power Range: 350 W

# MDS



- 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

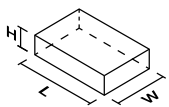
## Applications



Medical PC

Output		MDS-350AD701						
Output Voltage		+3.3 V	+5 V	+5 V <sub>SB</sub>	+12 V <sub>1</sub>	+12 V <sub>2</sub>	-12 V	-5 V
Output Current (Nom)		8.0 A	9.0 A	1.25 A	8.0 A	8.0 A	0.25 A	0.1 A
Output Power		350 W						
Load Regulation		± 5%					± 10%	
Ripple & Noise		< 50 mVpp	< 50 mVpp	< 150 mVpp	< 120 mVpp	< 120 mVpp	< 120 mVpp	< 50 mVpp
Input								
Input Voltage Range		90-264 V <sub>AC</sub>						
Input Frequency		47-63 Hz						
Efficiency	115 V <sub>AC</sub> (60 Hz)	82% typ.						
	230 V <sub>AC</sub> (50 Hz)	85% typ.						
Leakage Current <sup>1)</sup>		< 0.1 mA @ NC, < 0.3 mA @ SFC						
Mechanical								
Dimensions (L × W × H)	mm	194 × 100 × 40.5						
	inch	7.64 × 3.94 × 1.59						
Unit Weight	kg	1.20						
	lb	2.65						
MTBF <sup>2)</sup>		500,000 hrs						
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B						
Environment								
Operating Temperature <sup>3)</sup>		0°C to +50°C						
Storage Temperature		-40°C to +85°C						
Operating Humidity		5 to 95% RH (Non-Condensing)						
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)						
Medical Rating								
Float Rating		BF						
MOPP		2 × MOPP						

### Dimensions Reference



#### Notes

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

# Adapters



## MDS

General adapter for medical application

**Power Range: 5-150 W**



## MEA

New generation adapter with compact size and high power density design

**Power Range: 65-250 W**

## Applications



CPAP



Medical  
Display





# MDS (5V, 12V)



- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3 mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- IP22 Ingress Protection Rating (except MDS-150AAS12 BA)
- 2 × MOPP isolation

## Applications



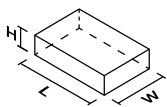
CPAP



Medical Display

Output	MDS-005AAS05 A□	MDS-005AAS05 B□	MDS-005AAS05 C□	MDS-030AAC05 A□	
Output Voltage	5V	5V	5V	5V	
Output Current (Max)	1.0A	1.0A	1.0A	3.0A	
Output Power	5W	5W	5W	15W	
Load Regulation	± 9%			± 5%	
Ripple & Noise	88mV pk-pk @ full load			< 100mV pk-pk @ rated load	
<b>Input</b>					
Input Voltage Range	90-264 V <sub>AC</sub>			85-264 V <sub>AC</sub>	
Input Frequency	47-63Hz				
Average Efficiency	115 V <sub>AC</sub> 230 V <sub>AC</sub>	73.63%		81.4%	
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1mA @ NC, < 0.3mA @ SFC			
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	-		< 0.1mA @ NC, < 0.5mA @ SFC	
<b>Mechanical</b>					
Dimensions (L × W × H)	mm	56.5 × 39.5 × 28	56.5 × 39.5 × 28	56.5 × 39.5 × 28	88 × 53.5 × 27.5
	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
	lb	0.22	0.22	0.22	0.33
Connector Type	MDS-005AAS05 A□: Input: Wall mount – CN; Output: A <sub>V</sub> : Barrel type; A <sub>U</sub> : Micro USB MDS-005AAS05 B□: Input: Wall mount – US; Output: B <sub>V</sub> : Barrel type; B <sub>U</sub> : Micro USB MDS-005AAS05 C□: Input: Wall mount – EU; Output: C <sub>V</sub> : Barrel type; C <sub>U</sub> : Micro USB MDS-030AAC05 AA: Input: Wall mount – CN; Output: Barrel type MDS-030AAC05 AB: Input: Wall mount – US; Output: Barrel type MDS-030AAC05 AC: Input: Wall mount – EU; Output: Barrel type				
MTBF <sup>2)</sup>	1,000,000hrs			500,000hrs	
EMC & Emissions	EN 55011/EN 55032				
<b>Environment</b>					
Operating Temperature <sup>3)</sup>	0°C to +40°C				
Storage Temperature	-40°C to +85°C				
Operating Humidity	5 to 95% RH (Non-Condensing)				
Operating Altitude	0 to 3,000m (0 to 9,840ft)			0 to 5,000m (0 to 16,400ft)	
Degree of Protection	IP22				
Protection Against Shock	Class II				
<b>Medical Rating</b>					
Float Rating	BF				
MOPP	2 × MOPP				

### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.  
For MDS-030AAC05 □□ and MDS-030AAC12 □□, MTBF as per Telcordia SR-332 (I/P: 100 V<sub>AC</sub>, O/P: 100% load, T<sub>a</sub>: 25°C).
- 3) Refer power de-rating in the product datasheet.

MDS-030AAC12 □□	MDS-060BAS12 AB	MDS-080AAS12 AB	MDS-150AAS12 BA
12 V	12 V	12 V	12 V
2.0 A	5.0 A	6.67 A	10.0 A
24 W	60 W	80 W	120 W
± 5%		± 4.5%	
< 150 mV pk-pk @ rated load	1% typ. pk-pk @ full load	118.4 mV pk-pk @ full load	104 mV pk-pk @ full load
85-264 V <sub>AC</sub>		90-264 V <sub>AC</sub>	
47-63 Hz			
86.21%	88.0%	83% typ.	88.0%
87.0%			
< 0.1 mA @ NC, < 0.3 mA @ SFC			
< 0.1 mA @ NC, < 0.5 mA @ SFC	-		
88 × 53.5 × 27.5	135 × 62 × 34.1	150 × 75 × 40	170 × 85 × 40
3.46 × 2.11 × 1.08	5.31 × 2.44 × 1.34	5.91 × 2.95 × 1.57	6.69 × 3.35 × 1.57
0.15	0.34	0.50	1.10
0.33	0.78	1.10	2.43
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			
500,000 hrs	1,000,000 hrs		
EN 55011/EN 55032			
0°C to +40°C			
-40°C to +85°C			
5 to 95% RH (Non-Condensing)		10 to 95% RH (Non-Condensing)	
0 to 5,000 m (0 to 16,400 ft)		0 to 3,000 m (0 to 9,840 ft)	
IP22		-	
Class II		Class II with functional earth	
BF			B
2 × MOPP			

# MDS (15V, 19V)

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



## Applications



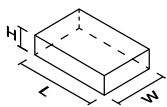
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Medical Display

Output	MDS-030AAC15 A□	MDS-090AAS15 B□	MDS-090AAS15 F□	MDS-060BAS19 AA	
Output Voltage	15 V	15 V	15 V	19 V	
Output Current (Max)	2.0 A	6.0 A	6.0 A	3.15 A	
Output Power	30 W	90 W	90 W	60 W	
Load Regulation	± 5%	± 4.5%		± 5%	
Ripple & Noise	< 200 mV pk-pk @ rated load	114 mV pk-pk @ full load		1% typ. pk-pk @ full load	
<b>Input</b>					
Input Voltage Range	85-264 V <sub>AC</sub>	90-264 V <sub>AC</sub>			
Input Frequency	47-63 Hz				
Average Efficiency	115 V <sub>AC</sub>	87.0%	88.0%	88.0%	
	230 V <sub>AC</sub>			87.0%	
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1 mA @ NC, < 0.3 mA @ SFC			
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1 mA @ NC, < 0.3 mA @ SFC			
<b>Mechanical</b>					
Dimensions (L × W × H)	mm	88 × 53.5 × 27.5	150 × 60 × 35	150 × 60 × 35	135 × 62 × 34.1
	inch	3.46 × 2.11 × 1.08	5.91 × 2.36 × 1.38	5.91 × 2.36 × 1.38	5.31 × 2.44 × 1.34
Unit Weight	kg	0.15	0.45	0.45	0.34
	lb	0.33	0.99	0.99	0.75
Connector Type	MDS-030AAC15 AA: Input: Wall mount – CN; Output: Barrel type MDS-030AAC15 AB: Input: Wall mount – US; Output: Barrel type MDS-030AAC15 AC: Input: Wall mount – EU; Output: Barrel type MDS-090AAS15 BA, MDS-090AAS15 FA: Input: C14 socket; Output: 4-pin DIN MDS-090AAS15 BE, MDS-090AAS15 FE: Input: C14 socket; Output: Tuning Fork type MDS-060BAS19 AA: Input: C8 socket; Output: Tuning Fork type				
MTBF <sup>2)</sup>	500,000 hrs	1,000,000 hrs			
EMC & Emissions	EN 55011/EN 55032				
<b>Environment</b>					
Operating Temperature <sup>3)</sup>	0°C to +40°C				
Storage Temperature	-40°C to +85°C				
Operating Humidity	5 to 95% RH (Non-Condensing)	10 to 95% RH (Non-Condensing)		5 to 95% RH (Non-Condensing)	
Operating Altitude	0 to 5,000 m (0 to 16,400 ft)	0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)	
Degree of Protection	IP22	-		IP22	
Protection Against Shock	Class II	Class II with functional earth	Class I	Class II	
<b>Medical Rating</b>					
Float Rating	BF		B	BF	
MOPP	2 × MOPP				

### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.  
For MDS-030AAC15 A□, MTBF as per Telcordia SR-332 (I/P: 100 V<sub>AC</sub>, O/P: 100% load, T<sub>a</sub>: 25°C).
- 3) Refer power de-rating in the product datasheet.

MDS-090AAS19 B□	MDS-090AAS19 F□	MDS-150AAS19 BA	MDS-150AAS19 FA	MDS-150CAB19 AA
19 V	19 V	19 V	19 V	19 V
4.73 A	4.73 A	7.89 A	7.89 A	7.9 A
90 W	90 W	150 W	150 W	150 W
		± 4.5%	± 5%	
91.2 mV pk-pk @ full load		190 mV pk-pk @ full load		109 mV pk-pk @ full load
90-264 V <sub>AC</sub>				
47-63 Hz				
88.0%	88.0%			92.0% typ.
-				
< 0.1 mA @ NC, < 0.3 mA @ SFC				
< 0.1 mA @ NC, < 0.3 mA @ SFC				
150 × 60 × 35	150 × 60 × 35	170 × 85 × 40	170 × 85 × 40	150 × 65 × 32
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
0.45	0.45	1.10	1.10	0.52
0.99	0.99	2.43	2.43	1.15
MDS-090AAS19 BA, MDS-090AAS19 FA: Input: C14 socket; Output: 4-pin DIN MDS-090AAS19 BE, MDS-090AAS19 FE: Input: C14 socket; Output: Tuning Fork type MDS-150AAS19 BA, MDS-150AAS19 FA: Input: C14 socket; Output: 4-pin DIN MDS-150CAB19 AA: Input: C6 socket; Output: 4-pin DIN				
1,000,000 hrs				2,100,000 hrs
EN 55011/EN 55032				
0°C to +40°C				
-40°C to +85°C				
10 to 95% RH (Non-Condensing)				
0 to 3,000 m (0 to 9,840 ft)				0 to 5,000 m (0 to 16,400 ft)
				IP22
Class II with functional earth	Class I	Class II with functional earth	Class I	
BF	B			
2 × MOPP				

# MDS (24 V)

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



## Applications



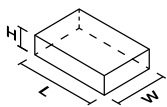
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Medical Display

Output	MDS-030AAC24 A□	MDS-060BAS24 AG	MDS-090AAS24 B□
Output Voltage	24 V	24 V	24 V
Output Current (Max)	1.25 A	2.5 A	3.75 A
Output Power	30 W	60 W	90 W
Load Regulation	± 5%	± 5%	± 4.5%
Ripple & Noise	< 200mV pk-pk @ rated load	1% typ. pk-pk @ full load	94.4mV pk-pk @ full load
<b>Input</b>			
Input Voltage Range	85-264 V <sub>AC</sub>	90-264 V <sub>AC</sub>	
Input Frequency	47-63 Hz		
Average Efficiency	115 V <sub>AC</sub>	87.0%	88.0%
	230 V <sub>AC</sub>		-
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1mA @ NC, < 0.3mA @ SFC	
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1mA @ NC, < 0.5mA @ SFC	-
			< 0.1mA @ NC, < 0.3mA @ SFC
<b>Mechanical</b>			
Dimensions (L × W × H)	mm	88 × 53.5 × 27.5	135 × 62 × 34.1
	inch	3.46 × 2.11 × 1.08	5.31 × 2.44 × 1.34
Unit Weight	kg	0.15	0.34
	lb	0.33	0.75
Connector Type	MDS-030AAC24 AA: Input: Wall mount – CN; Output: Barrel type MDS-030AAC24 AC: Input: Wall mount – EU; Output: Barrel type MDS-060BAS24 AG: Input: C8 socket; Output: Tuning Fork type MDS-090AAS24 BA, MDS-090AAS24 FA: Input: C14 socket; Output: 4-pin DIN		
MTBF <sup>2)</sup>	500,000 hrs	1,000,000 hrs	
EMC & Emissions	EN 55011/EN 55032		
<b>Environment</b>			
Operating Temperature <sup>3)</sup>	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)		0 to 3,000 m (0 to 9,840 ft)
Degree of Protection	IP22		-
Protection Against Shock	Class II		Class II with functional earth
<b>Medical Rating</b>			
Float Rating	BF		B
MOPP	2 × MOPP		

### Dimensions Reference



### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.  
For MDS-030AAC24 A□, MTBF as per Telcordia SR-332 (I/P: 100 V<sub>AC</sub>, O/P: 100% load, Ta: 25°C).
- 3) Refer power de-rating in the product datasheet.



MDS-090AAS24 F□	MDS-090BAS24 AB	MDS-150AAS24 B□	MDS-150AAS24 FA
24 V	24 V	24 V	24 V
3.75 A	3.75 A	6.25 A	6.25 A
90 W	90 W	150 W	150 W
± 4.5%	± 4.5%		
94.4mV pk-pk @ full load	107.2mV pk-pk @ full load	240mV pk-pk @ full load	
90-264 V <sub>AC</sub>			
47-63 Hz			
88.0%	87.61% @ full load		88.0%
-			87.0%
< 0.1mA @ NC, < 0.3mA @ SFC			
< 0.1mA @ NC, < 0.3mA @ SFC	-		
150 × 60 × 35	150 × 75 × 40	170 × 85 × 40	170 × 85 × 40
5.91 × 2.36 × 1.38	5.91 × 2.95 × 1.57	6.69 × 3.35 × 1.57	6.69 × 3.35 × 1.57
0.45	0.50	1.10	1.10
0.99	1.10	2.43	2.43
MDS-090AAS24 BE, MDS-090AAS24 FE: Input: C14 socket; Output: Tuning Fork 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			
1,000,000 hrs			
EN 55011/EN 55032			
0°C to +40°C			
-40°C to +85°C			
5 to 95% RH (Non-Condensing)	10 to 95% RH (Non-Condensing)		
0 to 3,000m (0 to 9,840ft)	0 to 5,000m (0 to 16,400ft)	0 to 3,000m (0 to 9,840ft)	
-	IP22	-	
Class I	Class II	Class II with functional earth	Class I
B	BF	B	
2 × MOPP			

# MEA (12V, 15V, 19V, 24V)

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



## Applications



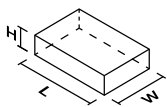
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Medical Display

Output	MEA-065A12C □-A	MEA-090A12C V-A	MEA-065A15C A-A	MEA-090A15C V-A
Output Voltage	12 V	12 V	15 V	15 V
Output Current (Max)	5.0 A	6.75 A	4.33 A	6 A
Output Power	60 W	81 W	65 W	90 W
Load Regulation	± 4.5%			
Ripple & Noise	1%			
<b>Input</b>				
Input Voltage Range	90-264 V <sub>AC</sub>			
Input Frequency	47-63 Hz			
Average Efficiency	115 V <sub>AC</sub>	88.0%	88.0%	88.0%
	230 V <sub>AC</sub>		89.0%	89.0%
Touch Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1mA @ NC, < 0.3mA @ SFC		
Leakage Current <sup>1)</sup>	264 V <sub>AC</sub>	< 0.1mA @ NC, < 0.3mA @ SFC	< 0.1mA @ NC, < 0.5mA @ SFC	< 0.1mA @ NC, < 0.3mA @ SFC
<b>Mechanical</b>				
Dimensions (L × W × H)	mm	115 × 50 × 29	135 × 62 × 32	115 × 50 × 29
	inch	4.52 × 1.97 × 1.14	5.31 × 2.44 × 1.26	4.52 × 1.97 × 1.14
Unit Weight	kg	0.25	0.31	0.25
	lb	0.55	0.68	0.55
Connector Type	MEA-065A12C A-A, MEA-065A15C A-A: Input: C14 socket; Output: Barrel type MEA-065A12C 6-A: Input: C14 socket; Output: 4-pin DIN MEA-090A12C V-A, MEA-090A15C V-A: Input: C14 socket; Output: Tuning Fork type			
MTBF <sup>2)</sup>	1,000,000 hrs			
EMC & Emissions	EN 55011/EN 55032			
<b>Environment</b>				
Operating Temperature <sup>3)</sup>	-10°C to +60°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			
Protection Against Shock	Class I			
<b>Medical Rating</b>				
Float Rating	B			
MOPP	2 × MOPP			

### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.  
For MEA-065A□□ □-A and MEA-250A24C H-A, MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load, T<sub>a</sub>: 25°C).
- 3) Refer power de-rating in the product datasheet.

MEA-065A19C A-A	MEA-090A19C V-A	MEA-065A24C □-A	MEA-090A24C V-A	MEA-250A24C H-A
19V	19V	24V	24V	24V
3.42A	4.74A	2.71A	3.75A	10.42A
65W	90W	65W	90W	250W
± 4.5%				
1%				< 240mV pk-pk @ rated load
90-264 V <sub>AC</sub>				
47-63 Hz				
89.0%				90.0%
< 0.1mA @ NC, < 0.3mA @ SFC				
< 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
115 × 50 × 29	135 × 62 × 32	115 × 50 × 29	135 × 62 × 32	200 × 100 × 43
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
0.25	0.31	0.25	0.31	1.05
0.55	0.68	0.55	0.68	2.31
<u>MEA-065A19C A-A, MEA-065A24C A-A</u> : Input: C14 socket; Output: Barrel type <u>MEA-065A24C 6-A</u> : Input: C14 socket; Output: 4-pin DIN <u>MEA-090A19C V-A, MEA-090A24C V-A</u> : Input: C14 socket; Output: Tuning Fork type <u>MEA-250A24C H-A</u> : Input: C14 socket; Output: 6-pin mini-fit				
1,000,000 hrs				500,000 hrs
EN 55011/EN 55032				
-10°C to +60°C				5°C to +60°C
-40°C to +85°C				-40°C to +70°C
5 to 95% RH (Non-Condensing)				
0 to 5,000m (0 to 16,400ft)				
IP22				
Class I				
B				BF
2 × MOPP				

# | Alternate Model List

Series	Model Name*	CC Code	Output Voltage	Output Current	Output Power	Recommended MEA Model Name	Page
<b>MDS-060AAS</b>	MDS-060AAS12	BA	12V	5.0A	60W	MEA-065A12C A-A	41
						MEA-065A12C 6-A	
	MDS-060AAS15	BA	15V	4.0A	60W	MEA-065A15C A-A	42
	MDS-060AAS19	BA	19V	3.2A	60W	MEA-065A19C A-A	
	MDS-060AAS24	BA	24V	2.5A	60W	MEA-065A24C A-A	
					MEA-065A24C 6-A		
<b>MDS-090AAS</b>	MDS-090AAS15	BE	15V	6.0A	90W	MEA-090A15C V-A	41
	MDS-090AAS15	FE		6.0A	90W	MEA-090A15C V-A	
	MDS-090AAS19	BE	19V	4.73A	90W	MEA-090A19C V-A	42
	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](http://www.DeltaPSU.com) for product detail specifications.

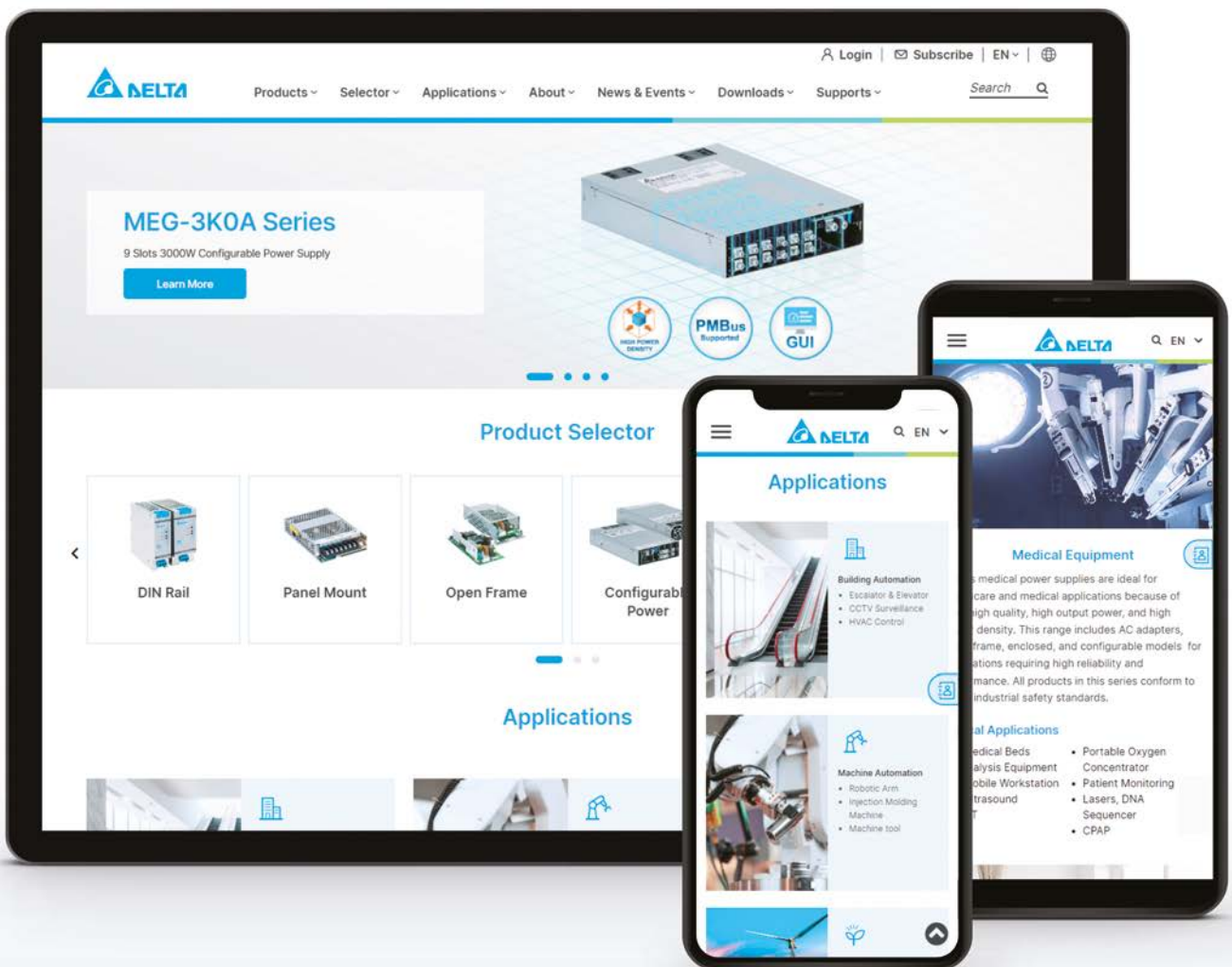
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# | Notes

## Warranty

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

## Attention

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

Delta reserves the right to make changes to the information described in the catalog and datasheets without notice.

## EMC Directives

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

## Availability

Products with “New” tab are slated for official release with immediate effect, while products with “Coming Soon” tab will be available within the next two months from this catalog’s publication month (refer to 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](http://www.DeltaPSU.com/feedback).



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