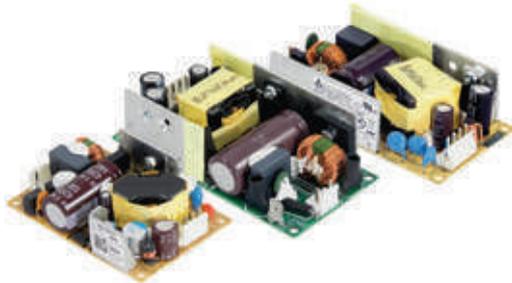


MDS

Features

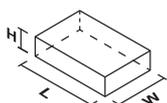


- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

Specifications

OUTPUT	MDS-040APS12	MDS-065APS12	MDS-100APS12	MDS-100BPS12	
Output Voltage	12V	12V	12V	12V	
Output Current (Max)	3.33A	5.42A	8.33A	6.67A (Convection) 8.33A (with 10CFM Forced Air)	
Output Power	40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)	
Load Regulation	± 1%				
Ripple & Noise	22.8mV pk-pk @ Full load	21.6mV pk-pk @ Full load	25mV pk-pk @ Full load	76mV pk-pk @ Full load	
INPUT					
Input Voltage Range	90-264Vac				
Input Frequency	47-63Hz				
Efficiency	115Vac 230Vac	86.5% typ.	87.5% typ.	89.2% typ.	
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	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC	
MECHANICAL					
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 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)				
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				

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

Features

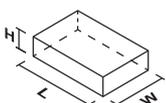


- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B EMI; 4th Edition Immunity Compliance
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

Specifications

OUTPUT		MDS-200APB12	MDS-250APB12	MDS-300APB12	MDS-400APB12
Output Voltage		12V	12V	12V	12V
Output Current (Max)		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)	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)	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	90-264Vac				
Input Frequency	47-63Hz				
Efficiency	115Vac (60Hz)	91.0% typ.	89.45% typ.	91.3% typ.	89.5% typ.
	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 (L × W × H)	mm	101.9 × 51.1 × 36.1	127.3 × 76.5 × 36.1	127.3 × 76.5 × 36.1	127.3 × 76.5 × 36.1
	inch	4.01 × 2.01 × 1.42	5.01 × 3.01 × 1.42	5.01 × 3.01 × 1.42	5.01 × 3.01 × 1.42
Unit Weight	kg	0.20	0.41	0.41	0.41
	lb	0.44	0.90	0.90	0.90
MTBF ²⁾		800,000 hrs	500,000 hrs	800,000 hrs	500,000 hrs
EMC & Emissions	EN 55011/EN 55032, FCC Title 47: Class B				
ENVIRONMENT					
Operating 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	BF				
MOPP	2 × MOPP				

Dimensions Reference

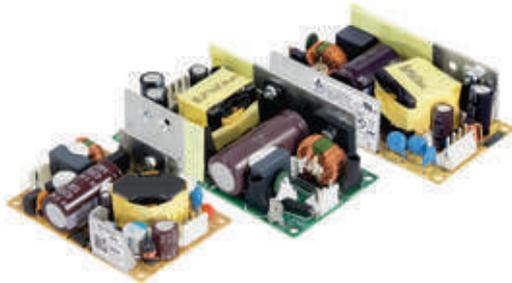


Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).
For MDS-400APB12, 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.

MDS

Features

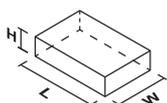


- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- 2 × MOPP isolation
- High MTBF

Specifications

OUTPUT	MDS-040APS15	MDS-065APS15	MDS-100APS15	MDS-100BPS15	
Output Voltage	15V	15V	15V	15V	
Output Current (Max)	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	90-264Vac				
Input Frequency	47-63Hz				
Efficiency	115Vac 230Vac	87.2% typ.	89.2% typ.	90.6% typ.	
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	-	< 0.15mA @ NC, < 0.3mA @ SFC	< 0.15mA @ NC, < 0.3mA @ SFC	
MECHANICAL					
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 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)				
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				

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

Features

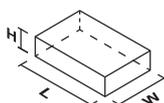
- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Power Good signal, Remote Sense, Remote Inhibit (only MDS-300APB18)
- 2 × MOPP isolation



Specifications

OUTPUT		MDS-040APS18	MDS-065APS18	MDS-100APS18	MDS-100BPS18	MDS-300APB18
Output Voltage		18V	18V	18V	18V	18V
Output Current (Max)		2.22A	3.61A	5.55A	4.4A (Convection) 5.5A (with 10CFM Forced Air)	12.22A (Convection) 16.66A (with 10CFM Forced Air)
Output Power		40W	65W	100W	80W (Convection) 100W (with 10CFM Forced Air)	220W (Convection) 300W (with 10CFM Forced Air)
Load Regulation		± 1%				
Ripple & Noise		14.8mV pk-pk @ Full load	20.8mV pk-pk @ Full load	28.8mV pk-pk @ Full load	88mV pk-pk @ Full load	1% typ. pk-pk Vrated @ Full load
INPUT						
Input Voltage Range		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 L × W × H)	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 × 36.1
	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 × 1.42
Unit Weight	kg	0.08	0.13	0.21	0.15	0.41
	lb	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)
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				

Dimensions Reference



Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.
For MDS-300APB18, 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.

MDS

Features

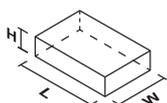


- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Safety approvals for medical and IT applications
- High MTBF
- 2 × MOPP isolation
- Remote sense

Specifications

OUTPUT		MDS-400AUS19	MDS-400AUS24	MDS-400AUS30
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.
Leakage Current ¹⁾	264Vac	< 0.1mA @ NC < 0.3mA @ SFC	< 0.1mA @ NC < 0.3mA @ SFC	< 0.1mA @ NC < 0.3mA @ SFC
MECHANICAL				
Dimensions (L × W × H)	mm	198 × 97 × 41.5	198 × 97 × 41.5	198 × 97 × 41.5
	inch	7.80 × 3.82 × 1.63	7.80 × 3.82 × 1.63	7.80 × 3.82 × 1.63
Unit Weight	kg	0.91	0.91	0.91
	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		B		
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.

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