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

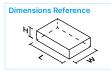
- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 Ed. 4 requirements
- Class B Conducted and Radiated EMI
- Suitable for type BF medical product •
- 2 × MOPP isolation
- Power Good signal



Applications



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)	33.33A (with 20CFM 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)	135W (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			150 mV pk-pk Vrated @ full load	1% typ. pk-pk Vrated @ full load		
Input								
Input Voltage Range		90-264 V _{AC}						
Input Frequency		47-63 Hz						
Efficiency	115 V _{AC} (60 Hz)	91.0% typ.	89.45% typ	91.3% typ.	89.5% typ.	92.5% typ.		
	230 V _{AC} (50 Hz)	93.0% typ.	90.5% typ.	92.6% typ.	91.5% typ.	93.5% typ.		
Leakage Current ¹⁾	$264V_{AC}$	Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ 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		
l luit Maialat	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	17: 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 Altitud	e			0 to 5,000m (0 to 16,400	ft)			
Medical Rating								
Float Rating			BF					
MOPP		2 × MOPP						



Notes
NC: normal condition, SFC: single fault condition.
MTBF as per Telcordia SR-332 (I/P: 115V_{AC}, O/P: 100% load, Ta: 35°C). For MDS-400ADB12 AD, MTBF as per Telcordia SR-332 (I/P: 115V_{AC}, O/P: 100% load with 20 CFM Forced Air, Ta: 35°C). For MDS-400ADB24 AD, MTBF as per Telcordia SR-332 (I/P: 115V_{AC}, O/P: 100% load with 10CFM Forced Air, Ta: 35°C).
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)	135W (Convection) 250W (with 10CFM Forced Air)	210 W (Convection) 300 W (with 10 CFM Forced Air)	400 W (with 16 CFM Forced Air)	210W (Convection) 300W (with 10CFM Forced Air)

		90-264 V _{AC}		
		47-63Hz		
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: < 0.1mA @ NC, < 0.3mA (Output-PE: < 0.1mA @ NC, < 0.5mA (
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
).76	1.35	1.35	1.35	1.35
300,000 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-Conde	nsing)	
		0 to 5,000 m (0 to 16,40	(0.ft)	

BF 2 × MOPP