

MAIN FEATURES

- § Universal input voltage range (90 – 305 V_{AC})
- § Input surge current limiting (< 20 A)
- § 340 W at natural convection up to 50 °C
- § 460 W forced air cooling
- § 520 W peak power for 10 s
- § High efficiency up to 94.5%
- § Low stand-by consumption (<0.35 W)
- § Stand by +5 V, 1 A output.
- Medical IEC 60601-1 3rd edition certified, 2x MoPP rated and BF appliances compatible.
- IEC 60601-1-2 4th edition EMC compliant.
- § 4000 m altitude operation as 2xMoPP grade
- § Protective cage option available



DESCRIPTION

- ✓ Wide Input Voltage Range (90 – 305 V_{AC}) and IEC/EN/ANSI-AAMI 60601-1 compliance → Ensures global compatibility.
- ✓ High Power Output (460 W continuous, 520 W peak for 10s) → Supports demanding applications with consistent performance.
- ✓ Natural Convection Operation (340 W up to 50°C) → Enables fan-less operation for silent and maintenance-free designs.
- ✓ High Efficiency (Up to 94.5%) and Low Standby Power (< 0.35 W) → Reduces power losses and minimizes heat generation, simplifying thermal management.
- ✓ Comprehensive Protection (IUV, OC, SC, OV, OT) → Enhances safety and reliability under all working conditions.
- ✓ Compact Form Factor (3.0" x 5.0" x 1.51") → Facilitates seamless system integration, even in space-constrained designs.
- ✓ Optional Protective Cage → Adds an extra layer of safety for industrial environments.
- ✓ Low leakage current and IEC 60601-1 Ed.3-2 medical certification → Safe for use in medical equipment, including BF-type medical equipment
- ✓ Compliant with IEC 60601-1-2 4th Ed. and Class B EMI standards → Ensures EMC performance for medical environments
- ✓ 2x MoPP altitude rating up to 4000 m → Suitable for high-altitude installations

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Designed for space-constrained and natural convection cooling environments, the MDP520 ensures high performance, reliability, and regulatory compliance, medical applications demand.

MODEL CODING AND OUTPUT RATINGS

Model Code	V _{OUT} Nominal [V _{DC}]	V _{AC} Range [V]	I _{OUT} [A]	I _{SB} [A]	Cooling Mode	Max Combined Output Power [W]
MDP520-US24-OF 	24	≥100	17.3	1.0	Natural Convection	360
		90-305	19.2	1.0	> 600 LFM forced air	460
MDP520-US24-PC 	24	≥100	17.3	1.0	Natural Convection	345
		90-305	19.2	1.0	> 600 LFM forced air	460
MDP520-US48-OF 	48	≥100	9.6	1.0	Natural convection	360
		90-305	9.6	1.0	>600 LFM forced air	460
MDP520-US48-PC 	48	≥100	9.6	1.0	Natural convection	345
		90-305	9.6	1.0	>600 LFM forced air	460
MDP520-US56-OF 	56	≥100	8.2	1.0	Natural convection	360
		90-305	8.2	1.0	>600 LFM forced air	460
MDP520-US56-PC 	56	≥100	8.2	1.0	Natural convection	345
		90-305	8.2	1.0	>600 LFM forced air	460