

MAIN FEATURES

- Sealed enclosure, IP66/67/68 rated
- High efficiency (94% from 50% to 100% load)
- Low stand-by power consumption (< 0.35 W)
- Universal input voltage range (85 – 305 VAC)
- Input inrush current limiting (<30 A)
- 800 W peak power (up to 10 s)
- Active PFC, EN61000-3-2, Class C compliant
- Low earth leakage current
- Over temperature, OV, OC and SC protections
- Stand by +5 V, 1.5 A output
- Remote On / Off, Power_Ok signals
- Medical safety approval to IEC 60601-1 3rd Edition, 2x MoPP rated and BF appliances compatible
- IEC 60601-1-2 4th Edition EMC compliant
- UV resistant input / output cables
- 4000 m altitude operation as 2x MoPP grade

BF
APPLIANCES
COMPATIBLE



UV Resistant
I/O Cabling



IP66
IP67
IP68



MARKET SEGMENTS AND APPLICATIONS

- Clinical analyser
- Dental units / chair
- MRI / Full body TC systems
- Medical diagnostic / imaging systems

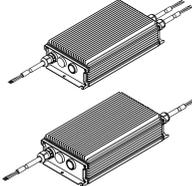
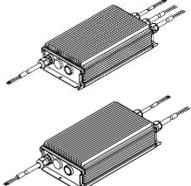
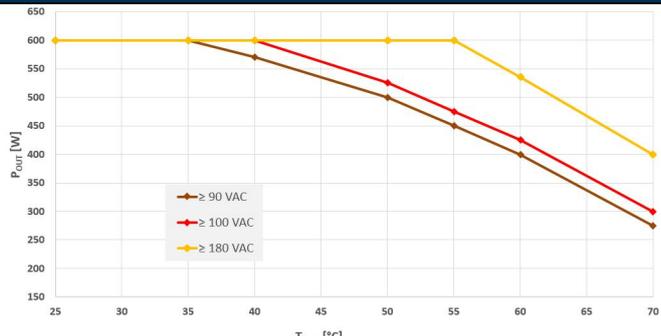
DESCRIPTION

- Sealed IP66, 67, 68 enclosure, and UV-resistant input/output cables with watertight glands → Ensures reliable operation in dusty or wet environments, ideal for industrial and LED lighting applications
- PWA full potting + aluminium finned enclosure → Enhances thermal performance via both convection and conduction, enables silent operation without fans and improves reliability
- 94% typical efficiency and < 0.35 W standby power consumption → Reduces power loss and internal heating, allowing compact design and longer component life, and enables energy-saving compliance in always-on systems or standby modes
- 85 – 305 VAC wide input voltage range → Compatible with global mains voltages, supporting versatile industrial deployments
- 10 s, 800 W Peak power capability → Handles high inrush or transient loads without oversizing the system
- Remote On/Off and Power_OK signals → Enables intelligent system monitoring and control for improved uptime and diagnostics
- +5 V, 1.5 A stand-by output (S option) → Supports auxiliary functions (e.g., control logic or wake-up circuits) even when main output is off
- Low leakage current and IEC 60601-1 Ed.3-2 medical certification → For use in medical equipment, including BF-type equipment
- Compliant with IEC 60601-1-2 4th Ed. and Class B EMI standards → Ensures EMC performance for medical environments

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MODEL CODING AND OUTPUT RATINGS

Model Grade and Output Power		Output Voltages		Packages	
Medical: MDP600-		24 V _{DC} : US24- 48 V _{DC} : US48-		Sealed Chassis: SC	
				 Standard	
				 Signals: -S	
Model Code	Nom V _{OUT} [V _{DC}]	I ₁ Rated [A]		I _{STBY} Rated [A]	Natural Convection Cooling Output Power Derating to T _{AMB} , V _{AC}
		55 °C	70 °C		
MDP600-US24-SC (-S)	24	25	16.6	1.5	
MDP600-US48-SC (-S)	48	12.5	8.8		