Main Features

- Universal input voltage range (90 – 264 V_{AC})
- Input surge current limiting (< 20A)
- 400 W rated power (440 W peak)
- High efficiency up to 94%
- Low stand-by consumption (< 0.5 W)
- 12, 24, 28, 36 or 48 VDC standard output voltages
- Active PFC, EN61000-3-2 compliant (Class C, >25 % load)
- Low earth / touch leakage current
- Over temperature protection
- OV, OC and SC protections
- Stand-by +5 V, 2 A and auxiliary / fan 12 VDC, 1 A outputs
- Remote On / Off, Power-good and remote sense signals
- IEC - ANSI/AAMI ES60601-1, 2XMoPP, BF Appliance compatible
- EN 60601-1-2 4th ed. for immunity compliance
- RoHS 3 compliant (Directive 2015/863/EU)
- Medical version compatible with 4000 m altitude operation

Description

☑ Compact Form Factor with 400 W Output → Delivers significant power in a minimal form-factor, enabling high-performance designs with reduced space requirements, while allowing 440 W peak loads during intensive operation.
☑ Intelligent Fan Speed Control → Optimizes airflow and minimizes acoustic noise, extending fan lifespan and improving user comfort in noise-sensitive environments
☑ **Input surge current limiting (<20 A)** → Protects internal components and facility power infrastructure during startup, ensuring safe operation when devices are frequently switched on or used in systems with sensitive circuit breakers.
☑ **High efficiency up to 94%** → Reduces heat generation inside the medical device, improving system reliability, extending component lifetime, and allowing quieter or fan-less system designs.
☑ **Low stand-by consumption (<0.5 W)** → Minimizes energy consumption when equipment is idle, supporting hospital energy efficiency policies and meeting modern eco-design requirements.
☑ **12, 24, 28, 36 or 48 VDC standard outputs** → Supports a wide range of medical subsystems such as sensors, control electronics, motors, imaging modules, and communication interfaces without additional converters.
☑ **Active PFC compliant with EN61000-3-2 (Class C)** → Ensures clean power draw from the mains supply, reducing harmonic distortion and preventing interference with other sensitive medical equipment connected to the same electrical network.
☑ Stand-by +5 V / 2 A and auxiliary 12 V / 1 A outputs → Allows continuous operation of monitoring electronics, communication modules, or system control circuits even when the main power stage is inactive.
☑ Low earth / touch leakage current → Enhances patient safety by minimizing leakage currents that could reach the patient, particularly important in equipment connected to patient-applied parts.
☑ IEC / ANSI-AAMI ES60601-1, 2×MoPP, BF compatible → Meets stringent medical electrical safety requirements and ensures safe operation in devices with patient contact.
☑ Compliant with IEC 60601-1-2 4th Ed. and Class B EMI standards → Guarantees immunity to electromagnetic disturbances and low emissions, preventing interference with other medical devices in critical healthcare environments.

Scan the QR code to download datasheet:

Model Coding and Output Ratings

Model Number	V_{OUT} [V]	I_{OUT} [A]	V_{OUT} Ripple [mV]	V_{FAN} [V]	I_{FAN} [A]	V_{FAN} Ripple [mV]	$5V_{SB}$ [V]	$I5V_{SB}$ [A]	$5V_{SB}$ Ripple [mV]
MDP400-US12-VC-PP	12	33.3	120	12	1	240	5	2	50
MDP400-US24-VC-PP	24	16.7	240	12	1	240	5	2	50
MDP400-US36-VC-PP	36	11.1	360	12	1	240	5	2	50
MDP400-US48-VC-PP	48	8.3	480	12	1	240	5	2	50
MDP400-US28-VC-PP	28	14.3	280	12	1	240	5	2	50