

**MAIN FEATURES**

- Universal input voltage range (85 – 305 VAC)
- Input inrush current limiting
- 1200 W rated power
- High efficiency up to 94%
- Low earth / touch leakage current
- Fan speed control function
- Full set of electrical and thermal protections
- +12 V, 0.5 A and +5 V, 1 A Stand-by outputs
- Built-in current sharing and OR-ing for parallel operation and N+1 redundancy
- Remote On / Off, Power good and remote sense signals
- All packages fit 1U applications
- Medical safety approval to IEC 60601-1 3rd Edition, 2x MoPP rated and BF appliances compatible
- IEC 60601-1-2 4th edition EMC compliant
- 4000 m altitude operation as 2xMoPP grade
- PMBus™ digital power-management protocol supported

Body Floating Compatible



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**DESCRIPTION**

- ✓ **1200 W rated power output** → Delivers high power across a wide input range
- ✓ **High efficiency up to 94%** → Reduced power loss and minimal heat generation for improved system thermal performance
- ✓ **Built-in current sharing and OR-ing** → Supports parallel operation and N+1 redundancy for higher power and increased system reliability
- ✓ **Low earth/touch leakage current** → Enhances safety, particularly in medical or sensitive applications
- ✓ **Universal input voltage (85 – 305 VAC)** → Compatible with global AC power grids
- ✓ **Available in 3 compact 1U-compatible form factors** → Facilitates integration into space-constrained systems
- ✓ **Standby outputs: +12 V @ 0.5 A, +5 V @ 1 A** → Powers auxiliary functions without external converters
- ✓ **Digital PMBus™ protocol + Analog control (Remote On/Off, Power Good, Remote Sense)** → Enables smart monitoring, remote control, and easy system integration
- ✓ **Intelligent fan speed control** → Minimizes acoustic noise and extends fan lifetime
- ✓ **Full output power up to 60 °C (fan version) and 55 °C (U-chassis with airflow)** → Delivers consistent performance in demanding environments
- ✓ **Operation up to 70 °C with de-rating** → Maintains reliability under elevated temperatures
- ✓ **Comprehensive protection suite** → Ensures robust operation and safeguards connected systems
- ✓ **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

Scan the QR code to instantly open the datasheet:



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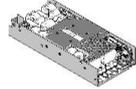
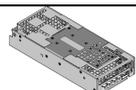


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**MODEL CODING AND OUTPUT RATINGS**

Model Grade, Output Power	Output Voltages	Packages and Cooling		
IT/Industrial Grade: <b>MDP1200-</b>	24 V <sub>DC</sub> : <b>US24-</b>	 Front Mounted Fans: -FF	 24V only U-Chassis External Forced Air Cooling: -UCF	
	48 V <sub>DC</sub> : <b>-US48-</b>		 24V only Perforated Cover External Forced Air Cooling: -PCF	
Output Parameter	24V		48V	
	180-305V <sub>AC</sub> 163-300V <sub>DC</sub>	85-137V <sub>AC</sub> 120-163V <sub>DC</sub>	180-305V <sub>AC</sub> 163-300V <sub>DC</sub>	85-137V <sub>AC</sub> 120-163V <sub>DC</sub>
Nominal V <sub>OUT</sub>	24 V ±0.5% set point accuracy		48 V ±0.5% set point accuracy	
Nominal Power / Current	1200 W / 50 A	1000 W / 41.7 A	1200 W / 25 A	1000 W / 20.8 A
V <sub>OUT</sub> Adjustable Range	±5% V <sub>NOM</sub>			
12V <sub>SB</sub> Nominal Voltage	12 V <sub>DC</sub> (stand-by output voltage is referred to the same V1 output voltage return)			
12V <sub>SB</sub> Rated Current	0.5 A (maximum +12 V <sub>SB</sub> and +5 V <sub>SB</sub> combined output power is 6 W)			
5V <sub>SB</sub> Nominal Voltage	5 V <sub>DC</sub> (stand-by output voltage is referred to the same V1 output voltage return)			
5V <sub>SB</sub> Rated Current	1 A (maximum +12 V <sub>SB</sub> and +5 V <sub>SB</sub> combined output power is 6 W)			