

**MAIN FEATURES**

- Universal input voltage range (85 – 305 VAC)
- Input inrush current limiting
- 750 W rated power (1200 W peak for <10 s)
- 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 3<sup>rd</sup> edition, 2x MoPP rated and BF appliances compatible
- IEC 60601-1-2 4<sup>th</sup> edition EMC compliant
- RoHS 3 compliant (Directive 2015/863/UE)
- 4000 m altitude operation as 2xMoPP grade
- PMBus™ digital power-management protocol supported

Body Floating Compatible



**DESCRIPTION**

- ✓ 750 W rated power output at natural convection cooling → Fan-less solution for silent operation and higher reliability in dusty environments
- ✓ 1200 W available peak output power for real 10 seconds → Suitable for medical apparatus requiring temporary power boost
- ✓ 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 V<sub>AC</sub>) → 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
- ✓ 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 4<sup>th</sup> 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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**MODEL CODING AND OUTPUT RATINGS**

Model Grade, Output Power	Output Voltages	Packages and Cooling			
IT/Industrial Grade: MDP1200-	24 V <sub>DC</sub> : -US24-	U-Chassis + Protective Cages Natural Convection Cooling: -PC			
	48 V <sub>DC</sub> : -US48-				
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	750 W / 31.25 A	600 W / 25.00 A	750 W / 15.63 A	600 W / 12.50 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)				

