

MAIN FEATURES

- Universal input voltage range (85 – 305 V_{AC})
- Inrush current limiting
- 1200 W rated power
- 95.5% typical efficiency
- Low stand-by consumption (<0.35 W)
- Active GaN based PFC, EN61000-3-2 Class C
- Fan speed control circuit
- Full set of electrical and thermal protections
- Standby +5 V, 1.5 A
- Current sharing signal for parallel operation
- Remote On / Off and Power Good signals
- Medical safety approval to IEC 60601-1, 2x MoPP, BF appliances compatible
- IEC 60601-1-2 4th edition EMC compliant.
- AV&IT safety approval to IEC 62368-1
- LED lighting safety approval to UL8750
- Medical version compatible with 4000 m altitude operation



NEW



MARKET SEGMENTS AND APPLICATIONS

- Stage Steady / Dynamic LED Lighting
- Video Wall Display and SSL Lighting
- Industrial Process Control and Automation
- Telecommunications
- Laboratory / Analysis Equipment
- CT / MRI medical Equipment
- Dental / Surgical Units
- Medical applications

DESCRIPTION

- ✓ **Wide universal input range (90–305 VAC)** → Global compatibility across industrial, medical, and lighting systems
- ✓ **1200 W rated power (steady output)** → Supports high-performance systems with continuous high-power needs
- ✓ **High typical efficiency (up to 95.5%)** → Minimizes heat, improves energy savings, and enables smaller thermal solutions
- ✓ **Active GaN-based PFC (Class C @ >150 W)** → Delivers compact, efficient power conversion while meeting power quality standards
- ✓ **+5 V, 1.5 A standby output** → Supports logic control and auxiliary circuits, simplifying system design
- ✓ **Built-in current sharing for parallel operation** → Scalable power architecture and N+1 redundancy for critical systems
- ✓ **Remote On/Off, Power Good, and Sense signals** → Enhances system-level control, diagnostics, and regulation accuracy
- ✓ **Digitally controlled fan speed** → Reduces noise, adapts to thermal demand, and extends fan and PSU lifetime
- ✓ **Compact 1U-compatible chassis (U-frame or enclosed)** → Enables integration in space-limited environments such as servers and medical devices
- ✓ **Full suite of protections (OV, OC, SC, OT, IUV)** → Increases system safety, reliability, and fault resilience
- ✓ **Low leakage current and medical 2x MoPP compliance** → Ensures patient and operator safety in medical applications (BF-rated equipment compatible)
- ✓ **Compliance to IEC 62368-1, UL8750, IEC 60601-1, and EN55032 Class B EMC** → Covers a wide range of industry sectors (IT, A/V, medical, and lighting) with strong safety and EMC compliance
- ✓ **RoHS 3 compliant; operates up to 4000 m (medical version)** → Environmentally friendly and ready for high-altitude medical or industrial deployments

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MODEL CODING AND OUTPUT RATINGS

Model Grade and Output Power	Output Voltages		Packages	
A/V ITE and ME Equipment: HDP1200-	24 V _{DC} : US24-		Front Fan Box: FF	
	48 V _{DC} : US48-			
Output Parameter	24V		48V	
	180-305V _{AC}	90-137V _{AC}	180-305V _{AC}	90-137V _{AC}
V _{OUT} Nom Voltage	24 V _{DC}		48 V _{DC}	
V _{OUT} Rated Power	1200 W	1000 W	1200 W	1000 W
V _{OUT} Rated Current	50 A	41.7 A	25 A	20.8 A
5V _{SB} Nominal Voltage	5 V _{DC} (stand-by output voltage is referred to the same V _{OUT} output voltage return)			
5V _{SB} Rated Current	1.5 A			

