

HDP301 POWER SUPPLY

HDP301 is a switching mode power supply for HDO platform. It is installed into HDX installation frame.

Features

- Switch mode technology provides wide input voltage range, high efficiency and reliability
- Reverse polarity protection
- Automatic shut-off at low input voltage for battery protection
- Galvanic isolation between input and output
- Short circuit, transient overvoltage and overheating protected
- Multiple power supplies can be connected in parallel to implement backup function
- Automatic load sharing in N+1 backup mode
- Small form factor family, 2 RU height
- Forced cooling through the unit
- Field replaceable fans



Management features

- DC input presence monitoring
- CPU and management functional even with missing DC input if another PSU is installed
- Output voltage and current monitoring with min / max memory
- Total output power monitoring
- LED indicators for powering and module statuses
- Internal temperature measurement and monitoring
- Intelligent fan speed control with monitoring
- Non-volatile logging of 32 latest events, including alarms, alarming values, settings changes and application starts.
- Uptime and total uptime counters
- All adjustments and alarm limits fully user configurable
- Local PC connection through backplane HDO bus with DVX012 cable
- Remote IP connection through HDC100 controller module
- SNMP monitoring and configuration through HDC100 controller module

Technical specifications

Parameter	Specification	Note
Input parameters		
Input voltage	48/60 VDC	1)
Input current	6 A @ 48 VDC, 4A @ 60VDC	
Inrush current	9 A	2)
Input connector	Neutrik NL4MP	3)
Output parameters		
Output voltage 1	+6.3 V ±4 %	
Current	0...8 A	4)
Ripple	max 50 mVpp	5)
Output voltage 2	+25 V ±4 %	
Current	0...8 A	6)
Ripple	max 80 mVpp	7)
Output power	max 200 W	8)
Line regulation	max ±1 %	9)
Load regulation	for both outputs max ±2 %,	10)
General		
Efficiency	min 85 %	
Cooling	2 field replaceable fans	11)
Dimensions	2U x 7HP x 380 mm Occupies 1/12 of HDX002	h x w x d
Weight	1.0 kg	
DC-DC compliance	EN 300 132-2	
Earthing compliance	EN 300 253	
EMC compliance	EN 300 386-1	
Enclosure classification	IP20	
Operating temperature	-10...+45 °C	12)
Storage temperature	-20...+85 °C	
Operating altitude	0...3000 m	13)
Operating relative humidity	0...85 %	

Notes

- 1) Input voltage range is -40,5...-71,3 VDC
- 2) Cold start at 25 °C. According to ETS300 132-2
- 3) Male connector Neutrik NL4FX is included
- 4) Current limiting starts at 9...14 A
- 5) With 8 A load current. Measured with 15 MHz BW limited oscilloscope and 0.47 µF capacitor terminated output.
- 6) Current limiting starts at 9...14 A
- 7) With 8 A load current. Measured with 15 MHz BW limited oscilloscope and 0.47 µF capacitor terminated output.
- 8) Output voltage +6.3 V is drawn from +25 V output
- 9) With max load and ±10 % of nominal line input voltage changing.
- 10) For both outputs. Measured by changing the measured output load ± 40 % from 60 % max load and nominal line.
- 11) Both fans can be replaced by the user without signal interruption.
- 12) Derating from 45°C to 60°C, 5 W/1°C. max +60°C 125 W.
- 13) Derating 1500m:80%, 3000m: 70%.