

HDP230 POWER SUPPLY

HDP230 is a switching mode power supply for HDO platform. It is installed into HDX installation frame.

Features

- Primary switch mode technology provides wide input voltage range, high efficiency and reliability
- Includes passive PFC (Power Factor Correction)
- 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

Management features

- AC input presence monitoring
- CPU and management functional even with missing AC 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	230 VAC \pm 15 %	
Input frequency	47...63 Hz	
Input current	2 A @ 230 VAC	
Inrush current	max 4 A @ 230 VAC	1)
Output parameters		
Output voltage 1	+6.3 V \pm 4 %	
Current	0...8 A	2)
Ripple	max 50 mVpp	3)
Regulation mode	Secondary switching	
Output voltage 2	+25 V \pm 4 %	
Current	0...8 A	4)
Ripple	max 80 mVpp	5)
Regulation mode	Primary switching	
Output power	max 200 W	6)
Line regulation	max \pm 1 %	7)
Load regulation	for both outputs max \pm 2 %,	8)
General		
Efficiency	min 85 %	
Hold up time min	20 ms	9)
Cooling	2 field replaceable fans	10)
Dimensions	2U x 7HP x 380 mm	h x w x d
	Occupies 1/12 of HDX002	
Weight	1.1 kg	
Safety compliance	EN 60950	
EMC compliance	EN 61000-6-1, EN 61000-6-3, EN 50083-2	
Enclosure classification	IP20	
Operating temperature	-10...+45 °C	11)
Storage temperature	-20...+85 °C	
Operating altitude	0...3000 m	
Operating relative humidity	0...85 %	

Notes

- 1) Cold start at 25 °C.
- 2) Current limiting starts at 9...14 A
- 3) With 8 A load current. Measured with 15 MHz BW limited oscilloscope and 0.47 μ F capacitor terminated output.
- 4) Current limiting starts at 9...14 A
- 5) With 8 A load current. Measured with 15 MHz BW limited oscilloscope and 0.47 μ F capacitor terminated output.
- 6) Output voltage +6.3 V is drawn from +25 V output
- 7) With max load and \pm 10 % of nominal line input voltage changing.
- 8) For both outputs. Measured by changing the measured output load \pm 40 % from 60 % max load and nominal line.
- 9) At 230 VAC input and max load, measured from the end of the last charging pulse to when the main output drops down to 95 % output voltage.
- 10) Both fans can be replaced by the user without signal interruption.
- 11) Derating from 45°C to 60°C, 5 W/1°C. max +60°C 125 W.