

Power Supply PS1020

KEY FEATURES AND BENEFITS

- Universal AC input
- Short circuit, overload, over voltage protection
- Air convection cooling
- DIN rail installation
- Built in DC OK active signal
- NEC class 2/ LPS compliant
- Power on LED indicator
- No load power consumption <0.75W
- 100% full burn-in tested



Part Number
32100-2

PRODUCT DESCRIPTION

The PS1020 product is a slim-design, DIN rail mounted Class I switching power supply featuring fully isolated plastic cases, extended operating temperatures from -20^o to 70^oC and 84% efficiency.

Standard features include short circuit, overload and over voltage protection, no load power consumption, and DC OK signal for monitoring status of the power supply unit.

SPECIFICATIONS



HARDWARE

• Enclosure	UL Compliant Fully Isolated Plastic Housing
• Installation Method	DIN RAIL (35MM)
• DIN Rail Spec	TS35/7.5 or TS35/15
• LED Indicators	Output Voltage Status
• Dimensions	3.9" x 0.8" x 3.5"
• Product Weight	0.35 lb

INPUT

• Connector Type	Screw Terminals
• AC Voltage Range	85 - 264VAC
• Frequency Range	47 - 63Hz
• Efficiency (Typ.)	84%
• AC Current (Typ.)	0.55A / 115VAC 0.35A / 230VAC
• Cold Start Inrush Current	20A / 115VAC 40A / 230VAC
• Leakage Current	< 1mA / 240VAC
• No Load Power Consumption	< 0.75W

OUTPUT SPECIFICATIONS

• Connector Type	Screw Terminals
• DC Voltage	24VDC
• Rated Current	1A
• Current Range	0 - 1A
• Rated Power	24W
• Voltage Adjustable Range	21.6 - 26.4VDC
• Voltage Tolerance	±1%
• Ripple and Noise (Max.)	150mVp-p
• Output Load Derating	50% of full load at 70°C
• Line Regulation	±1%
• Load Regulation	±1%
• Set-Up, Rise Time	500ms, 30ms/230VAC 1000ms, 30ms/115VAC
• Hold Up Time (Typ.)	50ms/230VAC 20ms/115VAC at Full Load
• DC OK Active Signal	18 - 27V / 20mA

PROTECTION SPECIFICATIONS

• Short Circuit/ Overload	
<i>Overload Power</i>	105 - 160% of rated power, 24W
<i>Overload Protection Type</i>	Constant Current Limiting Recovers automatically after fault condition is removed
• Over Voltage	
<i>Rated Voltage</i>	27.6 - 32.4VDC
<i>Over Voltage Protection Type</i>	Shutdown output voltage, re-power on to recover

ENVIRONMENTAL SPECIFICATIONS

• Air temperature	
<i>System On</i>	-20 to 70°C
<i>System Off</i>	-40 to 85°C
• Operating Humidity (non-condensing)	20% to 90%
• Vibration	
<i>Component:</i>	10 - 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes;
<i>Mounting:</i>	Compliance to IEC60068-2-6
• Mean Time Between Failures	27 years

REGULATORY APPROVALS

• Emissions	
European Standard EN55022	
Class B Limit	
IEC 1000-3-2/EN61000-3-2: Harmonic Class A Limit	
IEC 1000-3-2/EN61000-3-2: Flicker	
• Immunity	
European Standard EN55024:	
IEC 1000-4-2/EN61000-4-2: Electrostatic Discharge (ESD)	
IEC 1000-4-3/EN61000-4-3: Radiated Radio-Frequency (RF)	
IEC 1000-4-4/EN61000-4-4: Fast Transient/Burst	
IEC 1000-4-5/EN61000-4-5: Surge	
IEC 1000-4-6/EN61000-4-6: Conducted Disturbance	
IEC 1000-4-8/EN61000-4-8: Magnetic field	
IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations	
• Safety	UL 60950
• Other	
European Standard: 2002/95/EC Directive (RoHS)	
• Regulatory Approvals	
CE Mark, RoHS Compliant, CUL	

EXPORT INFORMATION

• Packaged Shipping Weight	0.40 lb
• Package Dimensions	4.3" x 1.1" x 4.1"
• UPC Code	7-56727-32100-2
• Country of Origin	Taiwan
• ECCN	4A994
• Schedule B Number	8504.40.6001

APPLICATIONS

- Traffic and Transportation
- Industrial Automation
- Building Automation
- Power Generation
- Material Handling
- Military

ORDERING INFORMATION

32100-2 Power Supply PS1020 (24V, 24 watts)

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information
Control offers a 30-day satisfaction guarantee and 3-year limited warranty.

Sales Support
+1.763.494.4100
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