



120W AC-DC Reliable PoE Power Adaptor

Compact
Size



PS52-2.3-D1

Key Features:

- 120-watt desk mount AC/DC Power supply
- Universal AC input from 90 to 264V AC
- 52 V DC output
- Short circuit, current overload, over-voltage, and over-temperature protection
- High-efficiency of 89%
- Cooling by free air convection
- EN90650-1, EN61000-6-2, and (EN50082-2) approved

120-Watt AC to DC Power Supply, Choose or 52 Volt Output

The PS52-2.3-D1 is a 120-watt desk mount AC to DC power supply with a choice of voltage output. It features a wide AC input range, high-efficiency, and full load operation over a broad ambient temperature range. Internal circuitry protects against current overload, over-voltage, excessively high temperatures, and short circuits. The PS52-2.3-D1 is fully certified to EMC and safety standards like TUV EN60950-1, EN61000-3-2. It fits well into control panels and is ideal for powering all of unmanaged and managed PoE switches and networking devices.

Stable Performance under Difficult Environments

Benchu Group DC single output power supply units come with such protection features as short circuit, overload, over voltage and over temperature for the stable operation of Ethernet equipment. Being able to operate under the temperature range from -30 to 65 degrees C (maximum), the DC single output power supply units can be placed in almost any difficult environments.

Compact Size with more Practicability and Convenience

Benchu Group has released a series of DC single output power supply units to make sure that Ethernet devices, specially designed for the harsh working environment, get DC voltage power easily.

Benchu Group DC single output power supply units accept universal 100-240V AC input voltage and provide 48-56V DC power output with various watt values. Its power supply units are designed in compact size. It is an ideal and convenient DC power feeding solution for Industrial equipment under heavy Industrial environments.

PS52-2.3-D1

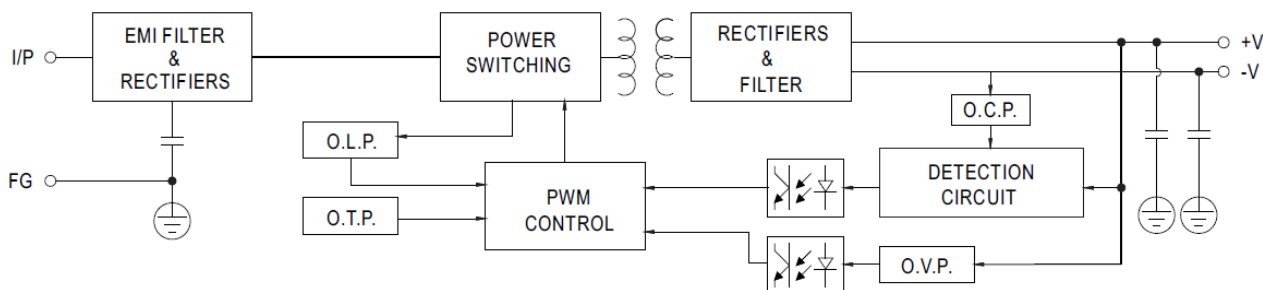
52V/120W PoE power adaptor

Technical Datasheet

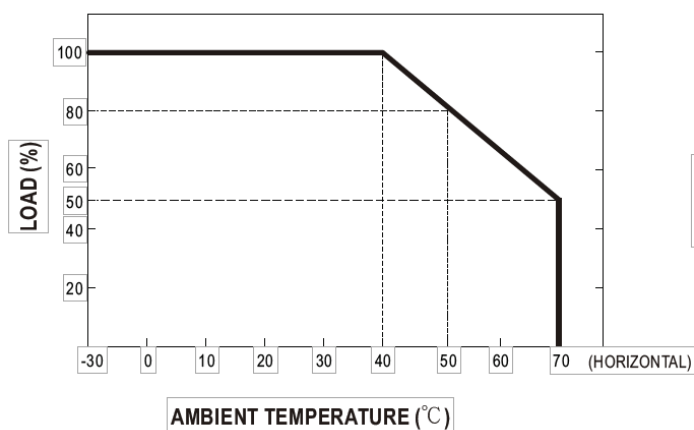
Model	PS52V-2.3-D1
Power	
Rated Power	120 watts
Output Voltage	52V/2.3A
Connection	Input: 3-pin standard IEC320-C14 power plug; Output: dc power plug
Input Voltage	90 to 264 VAC 127 to 370 VDC
Overload Protection	105% ~ 130% constant current limiting, auto-recovery
Efficiency	89%
Inrush Current	Cold start, 20 A at 115 VAC, 35 A at 230 VAC
Hold Up Time	60 ms / 230 VAC and 12 ms / 115 VAC at full load
Mechanical	
Dimensions	167 x 67 x 35 mm
Weight	0.3kg
Shock / Vibration	10 to 500 Hz, 2G 10 min./cycle, 60 min. along X, Y, Z axes; IEC60068-2-6 compliance
Ratings	
Operating Temperature	-30 to 65° C (refer to output derating curve)
Humidity	5 to 95% non-condensing
Safety Standards	TUV EN60950-1, EN60204-1, and EAC TP TC 004 approved
EMC	EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11, EN55024, and EN61000-6-2 (EN50082-2)
MTBF	486,200 hours per MIL-HDBK-217F (25°C)

Block Diagram

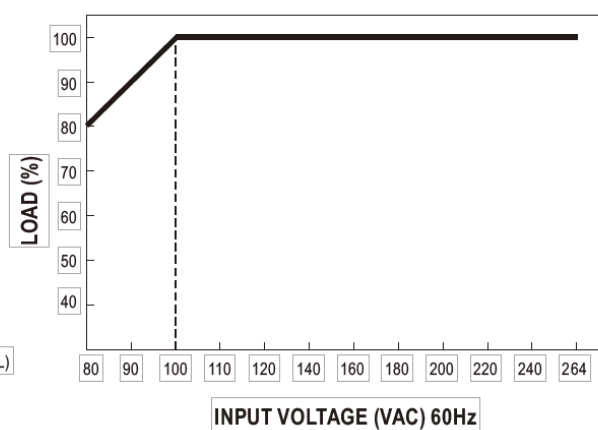
fosc : 70KHz



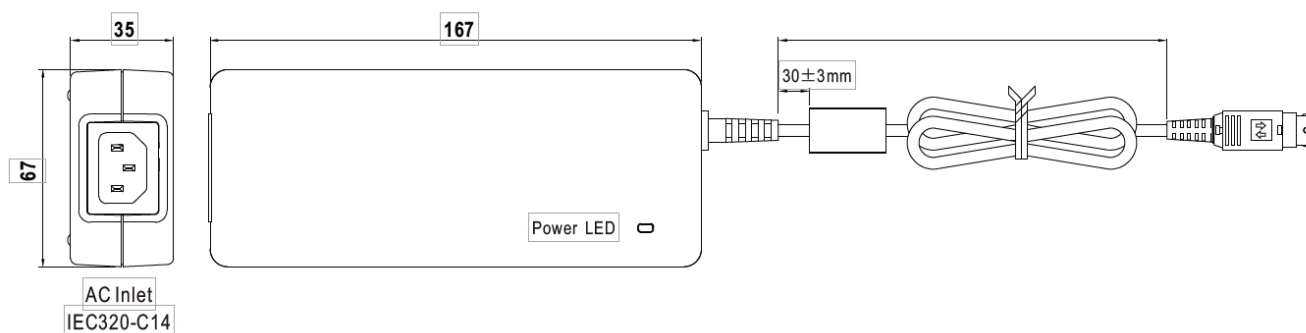
Derating Curve



Static Characteristics



Mechanical Specification



Ordering Information

PS52-2.3-D1

120-Watt AC to DC Power Supply, AC110-240V Input, 52V/2.3A outputs