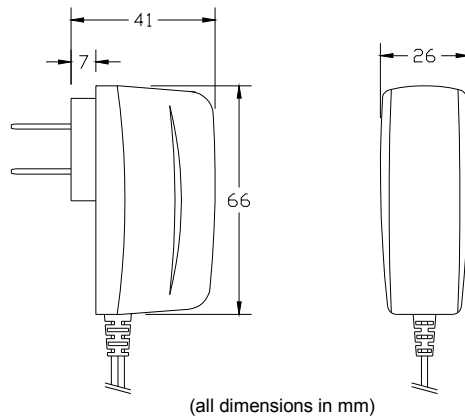


WSD050-10-0 Datasheet

(all dimensions in mm)

Overview

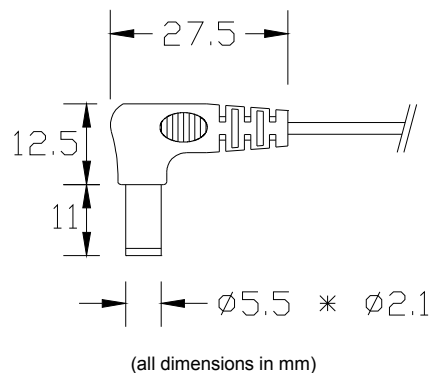
The WSD050-10-0 is a regulated, switching power supply which provides 5.0 VDC, 1.0 A output from a standard AC line voltage input. This supply utilizes a light-weight, efficient switching design which complies with CEC and EISA, Efficiency Level IV (North America). It is UL Listed and contains the CE mark. The supply is black in color.

AC Input Connector

The power supply utilizes a standard North American AC power plug with 2 prongs. The AC connector prongs are integrated into the body of the power supply.

DC Power Cord and Plug

The power supply comes with an output cord and DC power plug installed. The cord length is 1.5 meters (+/- 50 mm) and is constructed of 20 AWG, 2 conductor wire. The DC power plug is a standard right-angle style, female barrel connector with a 2.1mm inside diameter and 5.5mm outside diameter. The center conductor is the positive terminal.



(all dimensions in mm)

WSD050-10-0 Stocked Part Numbers

The following part numbers represent standard options and are stocked:

- WSD050-10-0

Electrical Characteristics

| <i>Specification</i> | <i>WSD050-10-0</i> | <i>Unit</i> |
|---|--|-------------|
| AC Power Supply Input Range | 90 - 264 | VAC |
| Input Current | < 0.2A RMS at 90 VAC Input | A |
| Input Frequency | 47 – 63 | Hz |
| Output Voltage | 5 | VDC |
| Output Current Note: No minimum load requirement | 1 | A |
| Output Power (Maximum) | 5 | W |
| Output Regulation (Line/Load) Note: Measured at output connector | ±5 | % |
| Turn-On Delay | < 2 | Sec |
| Switching Frequency (typical) | 65 | kHz |
| Leakage Current Note: At nominal AC input voltage and frequency | ≤ 0.25 | mA |
| Over-Current / Short Circuit Protection | Protected; unit will auto-recover upon removal of the fault. | -- |

Certification Markings

| | |
|------|--|
| EMI | Complies with FCC Part 15 Class B when tested with a resistive load, both conducted and radiated |
| CE | Tested to comply with EN61000-3-2, EN61000-3-3, and EN50082-1, including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 |
| UL | UL60950-1:2003, 1-st ED., CUL TO 22.2 # 60950-1:2003,1-st ED. |
| RoHS | Complies with EU 2002/95/EC and China SJ/T 11363-2006 |

Operating Conditions

| | |
|--|--------------|
| Ambient Operating Temperature Range | 0°C to 40°C |
| Relative Humidity Range - not freezing or condensing | 0% to 90% RH |

Notice

Winford Engineering, LLC does not authorize any of its products for use in military, medical or other life-critical systems and/or devices. Life-critical devices/systems include devices or systems which, a) are intended for surgical implantation into the body, or b) support or sustain life and whose failure to perform can be reasonably expected to result in injury. Winford Engineering, LLC products are not designed with the components required, and are not subject to the testing required to ensure a level of reliability suitable for the treatment and diagnosis of people. Winford Engineering, LLC shall not be held responsible or liable for damages or injury that occur as a result of the use of this product.