



ENGLISH

Datasheet

AC-DC Converter A20DA series



Product Detail

RS Pro switch mode power supply supports a wide input voltage range of up to 80%, high power density and low loss. Typical applications for the PCB mount AC/DC power supply induced industrial and office equipment. The 1-output power supply with 20W power rating, delivers 5V / 4000mA, 9V / 2222mA, 12V / 1667mA, 15V / 1333mA, 24V / 840mA output.

This embedded Switch Mode Power Supply based on EN60950, and EN55032 Class B standards.

Features and Benefits

- Universal Full Input 90 – 264VAC
- 20 Watt Power in compact size
- Continuous Short Circuit Protection
- Built-in Fusible Resistor
- 3kVAC Isolation
- High Efficiency up to 80% - 86%
- Low standby power & Minimum Load 0%
- Operating Temperature Range from -30°C to +75°C with derating

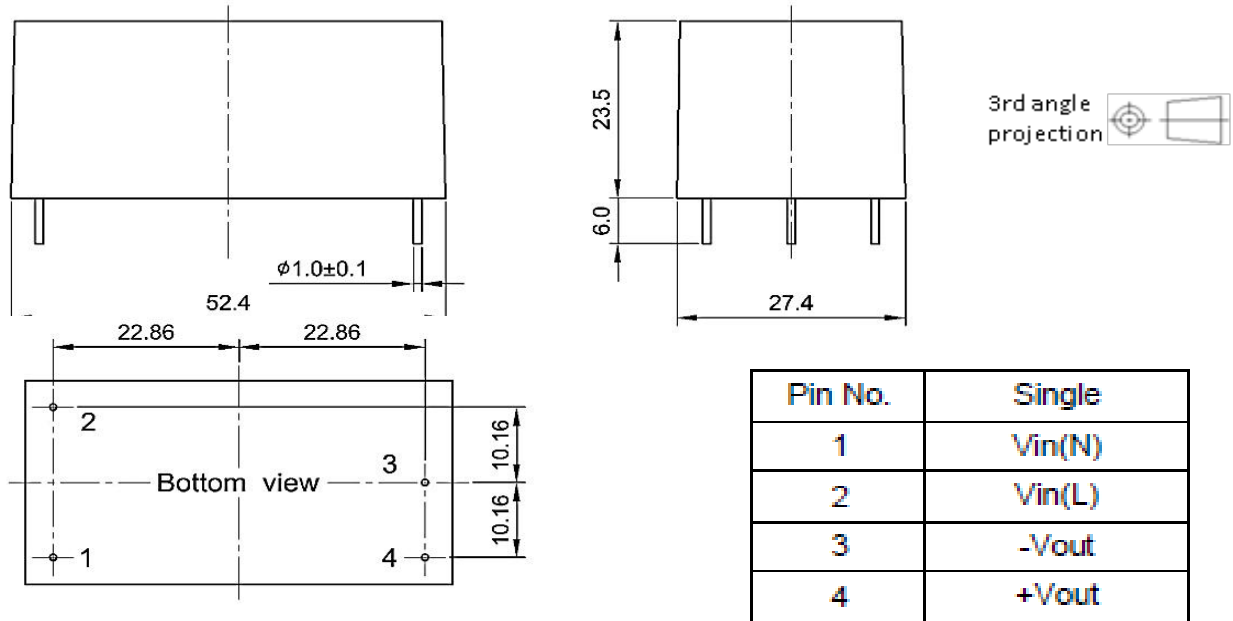
Specifications:

	A20D-AC05	A20D-AC09	A20D-AC12	A20D-AC15	A20D-AC24
Depth	23.5mm				
Efficiency	80%	83%	85%	85%	86%
Fuse	Internal built-in				
Humidity	95% RH Max.				
Input Voltage	90 – 264Vac				
Isolation Voltage	3kV ac / 1minute				
Length	52.4mm				
Line Regulation	±0.5%				
Load Regulation	±1% Max. (0-100%Load)				
Maximum Temperature	+75°C				
Minimum Temperature	-30°C				
MTBF	115000h (115Vac) / 1036000h 8230Vac) @25°C				
Number of Outputs	1				
Output Current	4000mA	2222mA	1667mA	1333mA	840mA
Output Voltage	5Vdc	9Vdc	12Vdc	15Vdc	24Vdc
Package Type	Encapsulated				
Power Rating	20W				
Ripple and Noise	150mVpp Max.				
Short-Circuit Protection	Automatic Recovery				
Weight	112g Typ.				
Width	27.4mm				
Frequency Rating	100kHz Typ.				
Safety	Based on UL60950				

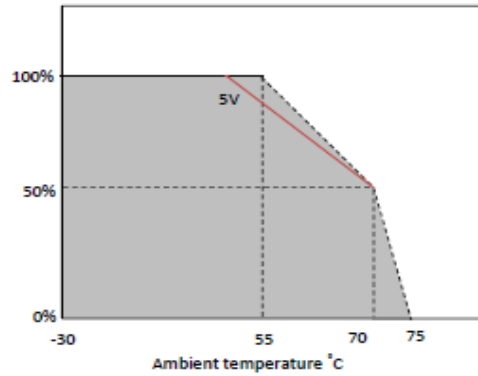
1. All specifications in this datasheet are measured at normal input and ambient temperature of 25° C.
2. The “output voltage tolerance” includes initial voltage accuracy, thermal drift, line regulation and load regulation at rated input voltage and load conditions
3. MTBF* are tested base on MIL-HDBK-217F

RS Pro AC-DC Converter (SMPS), 3.3Vdc / 300mA, 5Vdc / 200mA

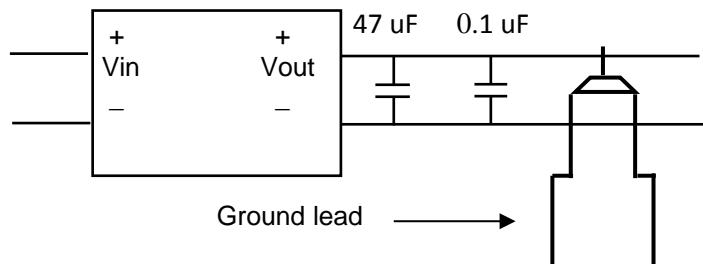
Mechanical Specification



Derating Curve



Application Note



1. To measure the output ripple & noise with short runs by 0.1uF/50V@20MHz, nominal input and full load.