

ADP90DC Series

Single Output Adapter



Features:

- 90W Max. Continuous Output Power
- 4.6" × 2.1" × 1.3" Package Size
- Low Output Ripple and Noise
- OVP, OCP, OTP and Short Circuit Protection
- Reverse Polarity Protection
- Built-in EMC Filter
- Safety Approvals (A)

All specifications are typical at nominal input, full load at 25 °C unless otherwise stated.

Electrical Specs

INPUT	
Input Range	10 ~ 28V DC
Input Current	11A max. @10V DC, full load
Efficiency	>84% @full load, input 10V DC
Shutdown Current	
Less than 100mA until start-up	
UVP Protection	
Between 8V ~ 9V	
Reverse Polarity	
Protection and not damage	
OUTPUT	
Maximum Power	70W Continuous
Output Voltage	12.6V ±0.5V
Voltage Regulation	As defined in output voltage
Output Current	Max. Load 5.6A Peak Load 7A @ 5 second duration both modes
Noise & Ripple	120mV pk-pk max.
Capacitive Load	2200uF for system
Hold-up Time	> 5ms @ Full load and 12V DC
Power On Time	3S max. @ 10VDC
OVP Protection	shall not exceed 16 volts
Short Protection	Auto-restart mode
OCP Protection	8A Maximum

Safety


CE EN55024, EN55022, EN61000



General

Switching Freq.	100KHz fixed
Isolation Voltage	2150 Vdc
Weight	0.525Kg (1.157 lbs.) max
MTBF	Upon request
Warranty Info	1 year

Environmental

Operating Temp	5°C~40°C
Storage Temp	-20°C~85°C
Temp. Derating	Decrease to 66% load from 40°C to 80°C
Relative Humidity	5%~95% RH non-condensing
Vibration	1.5G, 5~500Hz @ three orthogonal axes
Shock	Per MIL-STD-810E part IV
RoHS	Compliant 

EMC

Conducted Emissions	EN55022, Class B
Radiated Emissions	EN55022, Class A

A. We will offer the safety certificate, according to the customer's request.

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Mechanical Information

Figure 1: For ADP90DC-125521 and ADP90DC-125525 Model

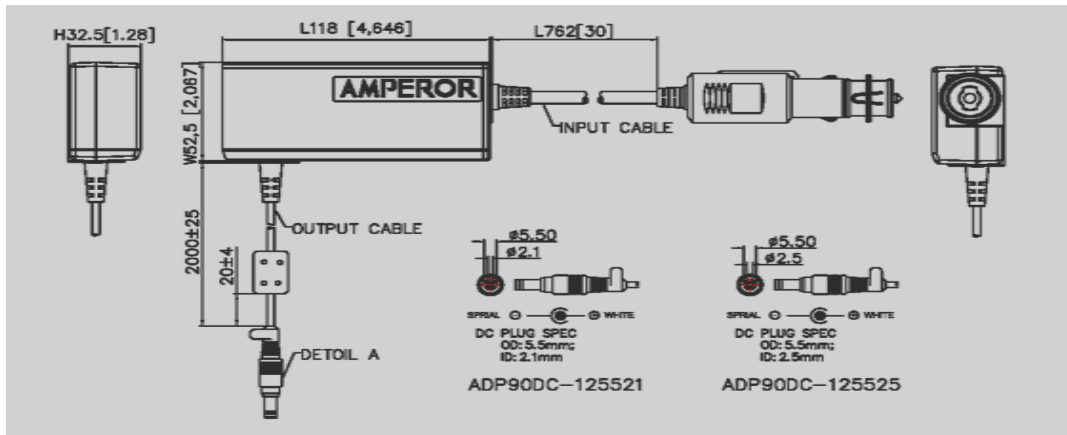
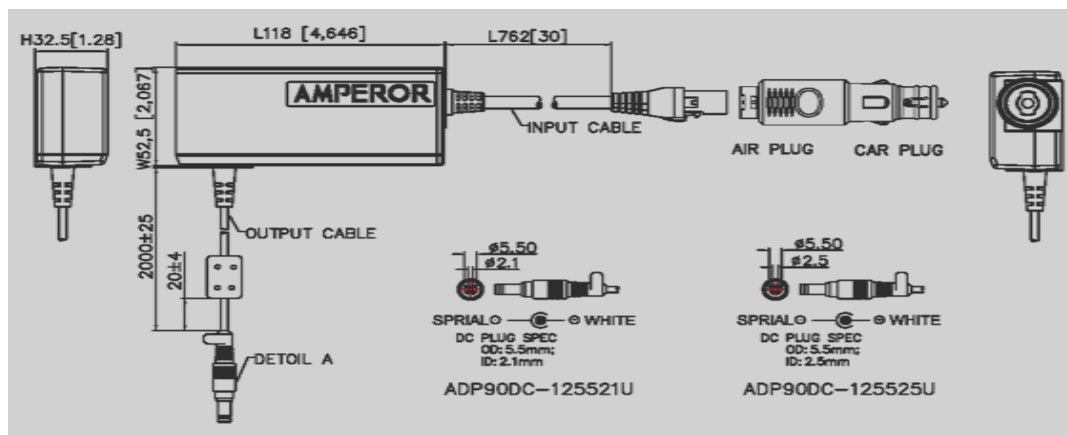


Figure 2: For ADP90DC-125521U and ADP90DC-125525U Model



Note:

1. For the ADP90DC series model, only a cigar plug and output plug specification is different.
2. All dimensions in mm(inch)
3. Detailed mechanical drawing upon request

DataSheet @ Amperor, Inc. @ 2008

The information and specifications contained in this datasheet are believed to be accurate at time of publication. Specifications are subject to change without notice.