

ED-PSU1201

2023-12-11



Overview

This specification defines the performance characteristics for a class II adapter, single-phase 12.0 watts. Single output level power supply. Simple design philosophy.

Reliability level of 50K hours MTBF @ 25° C (rated input voltage and using the Telcordia SR-332 issue 3 method).

DC output voltage must be Safe Extra Low Voltage (SELV) & Limited Power as defined by IEC62368-1.

The maximum room ambient temperature (Tmra), as mentioned in clause B.1.6 and B.2.6 of IEC62368-1, for the external power supply is 40°C. Cooling: natural convection.

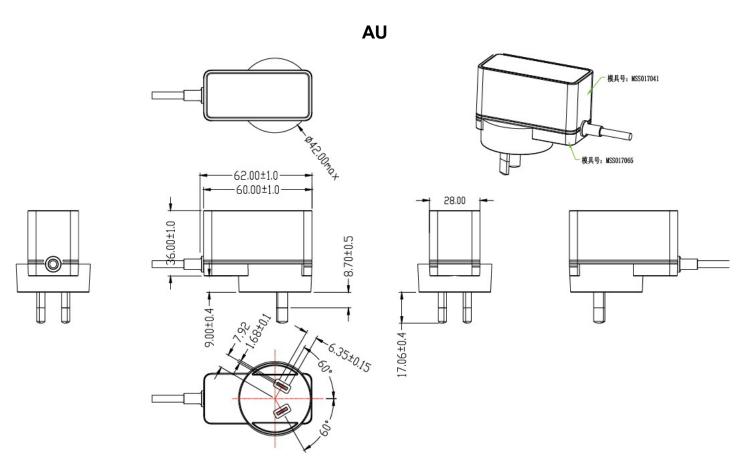
Input & Output Requirements

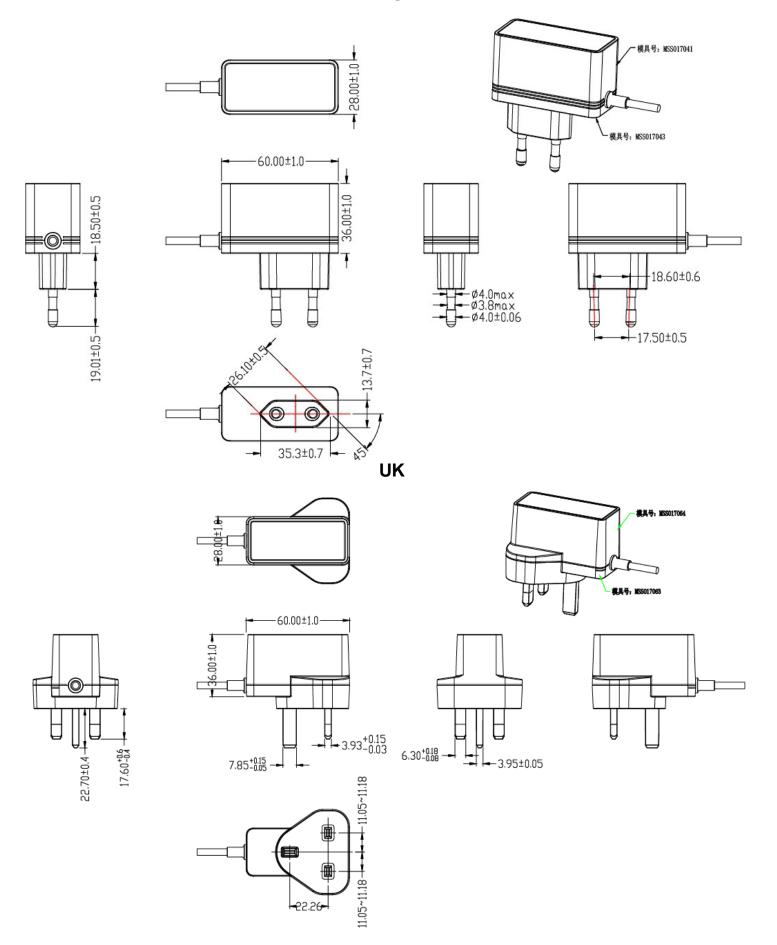
Input & Output Requirements					
Rated input voltage	INPUT REQUIREMENTS				
	100-240Vac				
Operating range	90-264Vac				
Rated input frequency	50/60Hz +/- 3Hz				
Rated input current	0.4A max.				
Power consumption (no-loading)	0.1W max.				
Primary current protection	An adequate internal fuse on the AC input line is provided.				
Configuration	2 Conductor				
AC Inrush Current	No damage shall be occurred and the input fuse shall not be blown up nominal input voltage full load 25°C cold start.				
OUTPUT REQUIREMENTS					
Nominal DC output voltage	+12.0V				
Minimum load current	0.01A				
Rating load current	1.0A				
Peak load current	1				
Rating output power	12.0W				
Line regulation	The line regulation is less than ±5% while measuring at rated load and +/-10% of input voltage chang ing.				
Load regulation	The load regulation for +12.0V is less than ±5%, at measured output load from 10% to 100% rated lo ad.				
Peak load regulation	The peak load regulation for +12.0V is less than / , at measured output load from 30% to 100% rated load.				
	120 mVp-p				
Ripple and noise	Add 0.1uF/50V ceramic capacitor and 10uF/50V aluminum electrolytic capacitor across the outputer minal. Measured with 20MHz Bandwidth Oscilloscope.				
	82.96% minimum				
Average efficiency	115V/60Hz and 230V/50Hz, output current from 100%, 75%, 50%, 25%.				
Turn on delay time	3000 mS max. at nominal input AC voltage and full load				
Rise time	The supply shall have a start-up rise time of less than 20mS to rise to within regulation limits for all D C outputs.				
Hold up time	8 mS minimum at nominal input 100V AC minimum voltage and full load.				
Output over-shoot	Less than 7% of nominal voltage value.				
LED indication function					
Protection function	Short-circuit protection: The adapter shall not be damaged by short the DC output to Ground. The adapter shall resume normal operation when a short circuited fault condition is removed.				
	Over current protection: The output shall be protected against the over current conditions.				

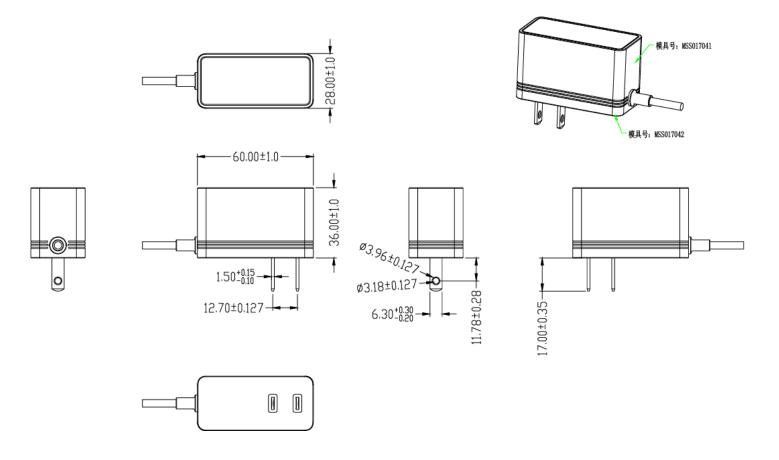
Regulatory Standard

Regulatory Standard					
	For Short	Country	Certified Status	Standard	
US	UL	USA	Meet	UL 62368-1	
	CUL	Canada	Meet	CSA C22.2 NO.62368-1	
UK	UKCA	UK	Meet	BS EN62368-1	
	CE	Europe	Meet	Declared& CE Mark EN62368-1	
AU	RCM	Australia	Meet	AS/NZS 62368-1	
EU	GS	Europe	1	EN62368-1	
	CE	Europe	Meet	Declared& CE Mark EN62368-1	

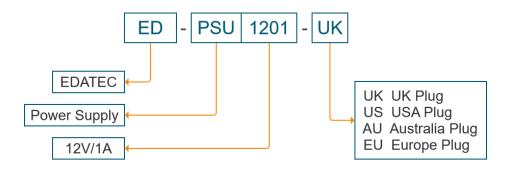
Appearance Drawing Unit:mm







Order Information



Example

Part# : ED-PSU1201-UK Configration :12V/1A, Black,UK Plug

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

EDATEC:

ED-PSU1201-UK ED-PSU1201-UK ED-PSU1201-AU ED-PSU1201-AU ED-PSU1201-US ED-PSU1201-US ED-PSU1201-EU ED-PSU1201-EU