SERIES: EPSA 5W EU USB | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- 5 W power
- universal input (90~264 Vac)
- single regulated 5 V output
- over voltage, over current, and short circuit protections
- TUV-GS safety approval
- level V efficiency

RoHS CE LPS

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
EPSA050100UE	5	1	5	350	V

Notes: 1. At full load, 20 MHz bandwidth oscilloscope, each output terminated with 10 µF aluminum electrolytic and 0.1 µF ceramic capacitors.

PART NUMBER KEY

EPSA050100UE - I38 - EJ - CXX

- Base Number (example of 5 Vdc, 1 A)
- USB Type A inlet
- Factory Designation
- Reserved for Custom Configurations

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at full load			0.15	A
leakage current				0.25	mA
fuse	internal, unchangeable fuse included				

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±5		%
load regulation	from +20% to +80% load		±10		%
start-up	at 115 Vac/50 Hz, 80% max. load			2	s
hold-up	at 115 Vac/50 Hz, 80% max. load	10			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down				
over current protection	automatic power decrease, auto recovery			200	%
short circuit protection	output terminal protected				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 2 seconds	3,000			Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	TUV-GS, CE, LPS				
EMI/EMC	CISPR22 EN55022 class B				
MTBF	as per Telcordia SR-332 at full load, 25°C	300,000			hrs
RoHS	2011/65/EU				

ENVIRONMENTAL

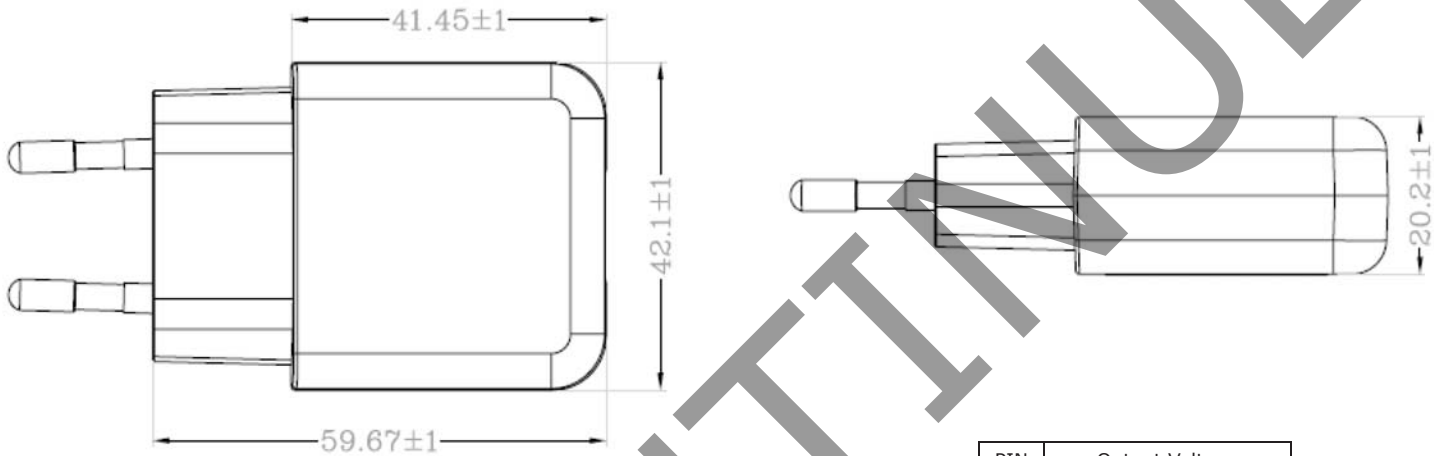
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-25		85	°C
operating humidity		10		95	%
storage humidity		10		95	%

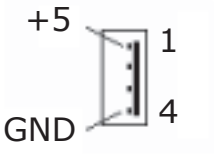
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	59.67 x 42.1 x 20.2				mm
input plug	EU 2-pin				

MECHANICAL DRAWING

units: mm
tolerance: ±1



PIN	Output Voltage
1	+5V
2	NC
3	NC
4	GND
	

REVISION HISTORY

rev.	description	date
1.0	initial release	11/06/2013

The revision history provided is for informational purposes only and is believed to be accurate.

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