

SERIES: EP5A 5W EU USB | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

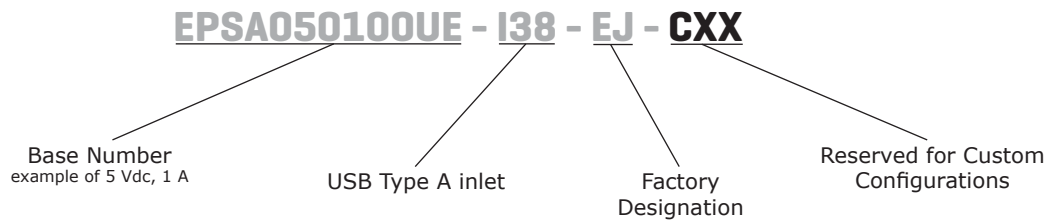
- 5 W power
- universal input (90~264 Vac)
- single regulated 5 V output
- over voltage, over current, and short circuit protections
- TUV-GS safety approval
- level V efficiency



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise¹ max (mVp-p)	efficiency level
EP5A050100UE	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



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

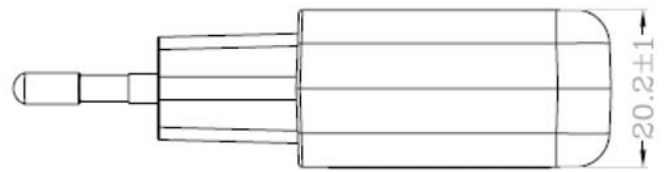
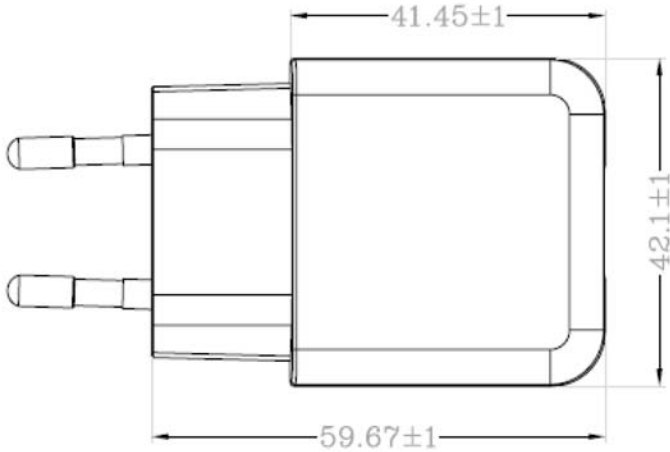
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-25		85	°C
operating humidity		10		95	%
storage humidity		10		95	%

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

Pinout diagram showing a 4-pin connector. The top pin is labeled +5, the bottom pin is labeled GND, the second pin from the top is labeled 1, and the second pin from the bottom is labeled 4.

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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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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