

SERIES: SMI10-USB | **DESCRIPTION:** AC-DC POWER SUPPLY

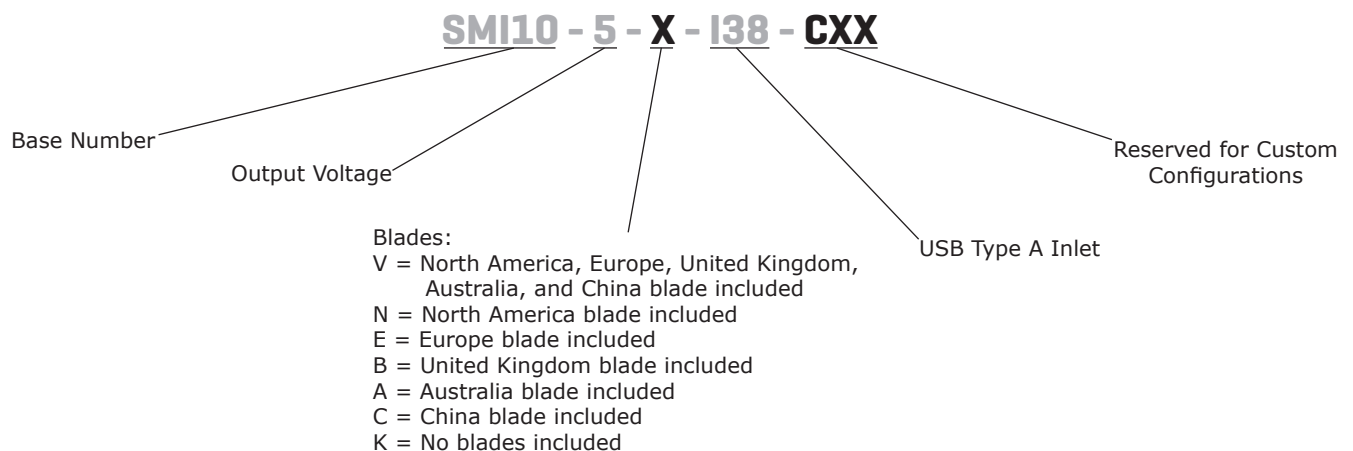
FEATURES

- up to 10 W continuous power
- DoE Level VI, CoC Tier 2 efficiency
- no load power consumption < 0.075 W
- universal input voltage range
- interchangeable Ac blades for global use
- over voltage and short circuit protections
- UL/cUL, RCM, CCC, PSE safety approvals
- UL/EN/IEC 62368 certified



MODEL	input voltage	input frequency	output voltage	output current	output power	ripple and noise ¹	efficiency level ²		no load power consumption
	range (Vac)	range (Hz)	nom (Vdc)	max (A)	max (W)	max (mVp-p)	average (%)	10% (%)	typ (W)
SMI10-5-I38	90 ~ 264	47 ~ 63	5	2	10	300	80.9	76.6	0.06

Notes: 1. At full load, 25°C, nominal input, 20 MHz bandwidth oscilloscope, output parallel with 0.1 µF and 10 µF capacitors to ground.
 2. CoC Tier 2 compliant

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at nominal input voltage			0.3	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac, 60/50 Hz			0.075	W
	Level VI CoC Tier 2			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%
start-up time				3	s
hold-up time	at nominal input voltage, full load	5			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	with zener clamp			10	Vdc
over current protection	output shut down, auto recovery			4	A
short circuit protection					

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000 4,242		Vac Vdc
safety approvals	UL/cUL, RCM, CCC, PSE, UKCA				
EMI/EMC	FCC Part 15B Class B, CE				
MTBF	as per Telcordia SR-332 Issue 2, at 115/230 Vac, full load, 0 ~ 40°C	50,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

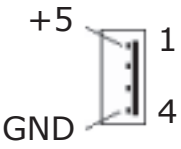
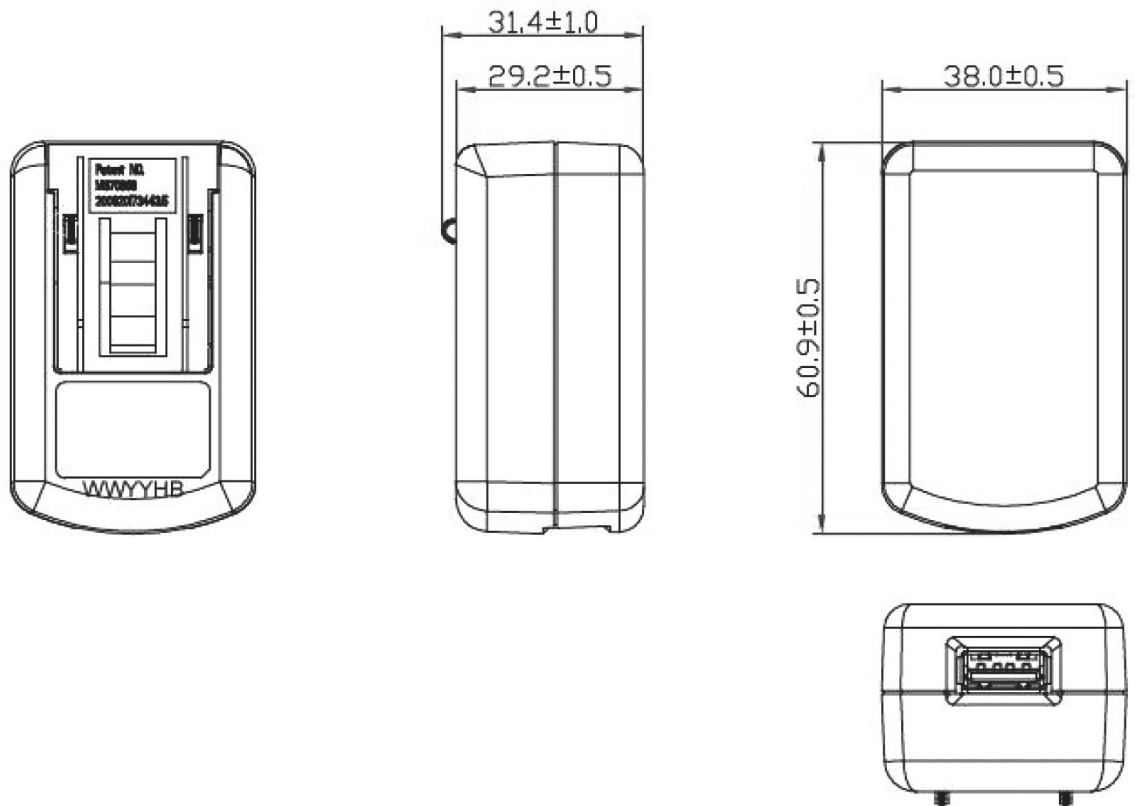
MECHANICAL

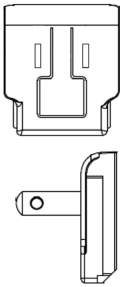
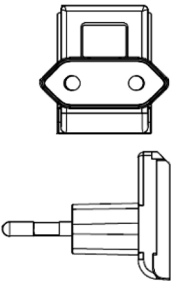
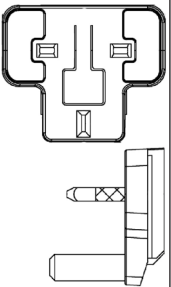
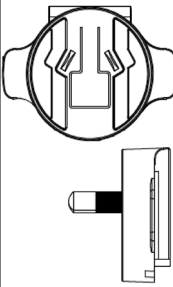
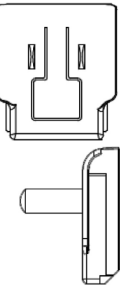
parameter	conditions/description	min	typ	max	units
dimensions	60.9 x 38 x 29.2				mm
inlet plug	interchangeable blades (North America, Europe, UK, Australia, China)				
weight	without interchangeable blades		40		g

MECHANICAL DRAWING

units: mm

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

INTERCHANGEABLE BLADES					
BLADE DESIGNATOR	N	E	B	A	C
REGION	North America	Europe	UK	Australia	China
BLADE ACCESSORY	SMI-US-3L	SMI-EU-3L	SMI-UK-3L	SMI-AU-3L	SMI-CN-3L
BLADE					

REVISION HISTORY

rev.	description	date
1.0	initial release	04/25/2016
1.01	updated datasheet	09/15/2016
1.02	updated features	07/22/2020
1.03	model table updated	11/27/2020
1.04	GS removed from safeties	12/11/2020
1.05	UKCA added to specification	08/12/2021

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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[SMI10-5-K-I38](#) [SMI10-5-V-I38](#)