

SERIES: SMI30C | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 30 W continuous power
- interchangeable ac blades for global use
- universal input voltage range
- integrated USB Type C receptacle
- USB Power Delivery (PD) 3.0
- compliant with BC1.2 and QC4+
- 5, 9, 12, 15, 20 Vdc output
- USB PPS 3.3~16 Vdc
- UL/CUL, CE, FCC safety approvals

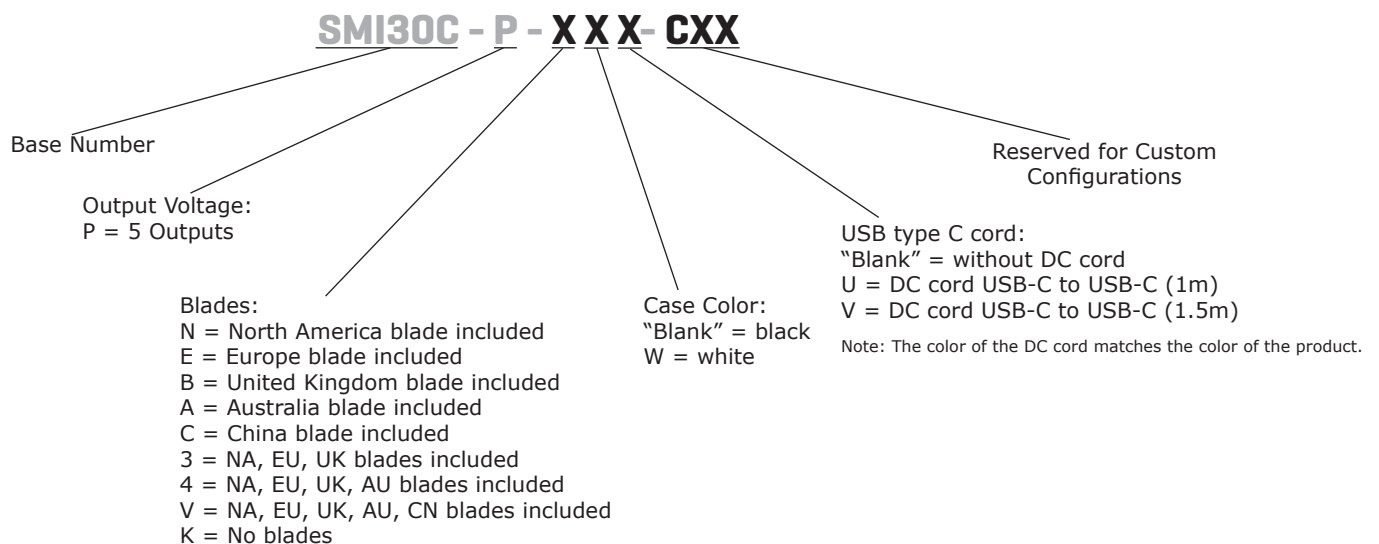


MODEL

MODEL	output voltage nom (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SMI30C	5	3.0	15	150	VI
	9	3.0	27	150	VI
	12	2.5	30	200	VI
	15	2.0	30	250	VI
	20	1.5	30	300	VI
	3.3~11.0	3.0	30	250	VI
	3.3~16.0	2.0	30	300	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, each output terminated with 0.1 μ F multilayer and 10 μ F low ESR electrolytic capacitors.
2. AC 115V/60Hz and 230V/50Hz, output load current from 100%, 75%, 50%, 25%.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current				0.8	A
leakage current				0.25	mA
no load power consumption	at 230 Vac			0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%
line regulation			±5		%
start-up time				4	s
rise time				100	ms
hold-up time	at 115 & 230 Vac, full load	8			ms

PROTECTIONS

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

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 10 mA max		3,000		Vac
safety approvals	certified to 62368-1: UL, EN				
EMI/EMC	FCC part 15: Class B for radiated and conducted emissions EN 55032, Class B for radiated and conducted emissions				
MTBF	as per Telcordia Technologies SR-332 (Issue 3), at 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

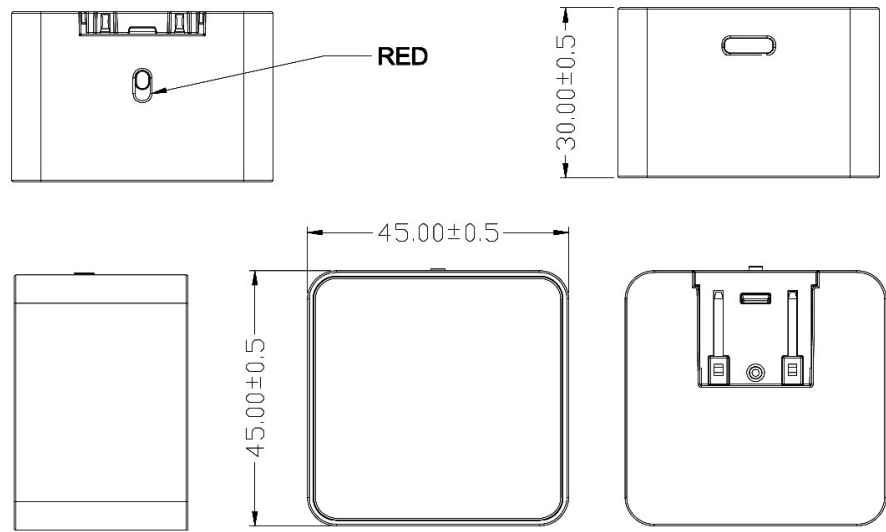
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		70	°C
operating humidity	non-condensing	5		95	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	45 (L) x 45 (W) x 30 (H)				mm
inlet plug	interchangeable blades (US, EU, UK, AU, CN)				
ac blade clip type	sliding clip				
weight	without blades		61.9		g

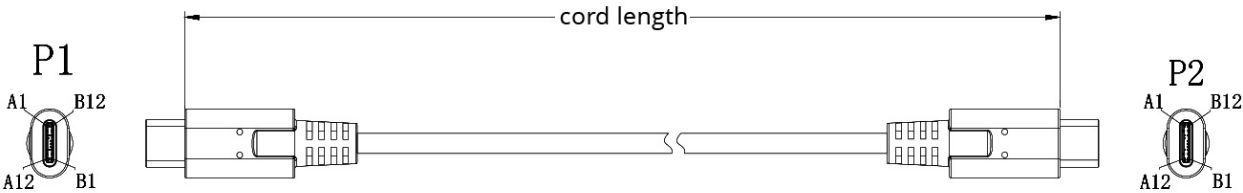
MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm



INTERCHANGEABLE BLADES					
BLADE DESIGNATOR	N	E	B	A	C
REGION	North America	Europe	UK	Australia	China
BLADE ACCESSORY	SMI-US-8	SMI-EU-8	SMI-UK-8	SMI-AU-8	SMI-CN-8
BLADE					

DC CORD



Plugs: USB-C to USB-C
Length: 1,000/1,500 mm
Color: black/white

REVISION HISTORY

rev.	description	date
1.0	initial release	02/05/2025

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.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.