

SERIES: SWI100C-B | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 100 W continuous power
- fixed UK AC blade
- universal input voltage range
- integrated USB type C Port
- USB power delivery (PD) 3.0 and PPS compliant
- EN 62368-1 certified
- custom designs available

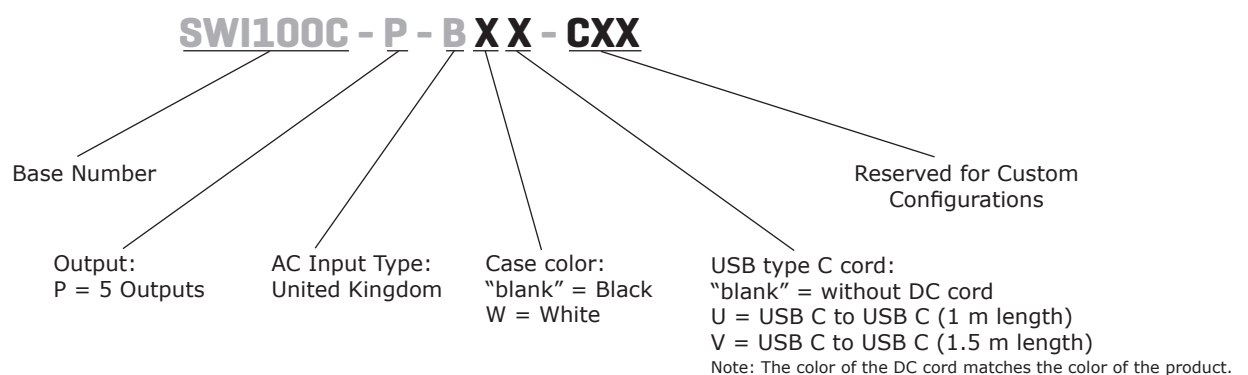


MODEL

		output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SWI100C-P-B	fixed	5	3	15	200	VI
		9	3	27	300	VI
		12	3	36	300	VI
		15	3	45	300	VI
		20	5	100	300	VI
	programmable	3.3~21	5	100	300	VI

Notes: 1. At full load, 25°C, at 115/230 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 47 µF capacitors.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current				1.5	A
inrush current	at 230 Vac, 25°C			100	A
leakage current	at 240 Vac			0.25	mA
no load power consumption	at 230 Vac, no load			0.15	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±1		%
load regulation	10% ~ 100% rated load		±5		%
start-up time	at 100 ~ 240 Vac, rated load			3	s
rise time	at 115 & 230 Vac, full load			50	ms
hold-up time	at 120 Vac/60 Hz, full load	10			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	auto recovery, hiccup				
	5 Vdc output		7.5		V
	9 Vdc output		13.0		V
	12 Vdc output		16.0		V
	15 Vdc output		20.0		V
	20 Vdc output		25.0		V
over current protection	auto recovery, hiccup				
	20 Vdc output			6.5	A
	all other outputs			3.9	A
short circuit protection	auto recovery, hiccup				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 10 mA max		3,000		Vac
	input to output for 2 seconds, 10 mA max		3,600		Vac
safety approvals	certified to 62368-1: BS EN, UKCA				
EMI/EMC	CE				
ESD	EN61000-4-2 contact: 4 kV, air: 8 kV, perf. Criteria A				
radiated immunity	EN61000-4-3 3 V/m, 80% AM (1KHz), perf. Criteria A				
EFT/burst	EN61000-4-4 line to line: 1 kV, line to earth: 1 kV, perf. Criteria A				
surge	EN61000-4-5 line to line: 1 kV, line to earth: 1 kV, perf. Criteria A				
conducted immunity	EN61000-4-6 3 Vrms, 80% AM (1KHz), perf. Criteria A				
MTBF	as per Telcordia SR-332 Issue 3 (2011), at 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

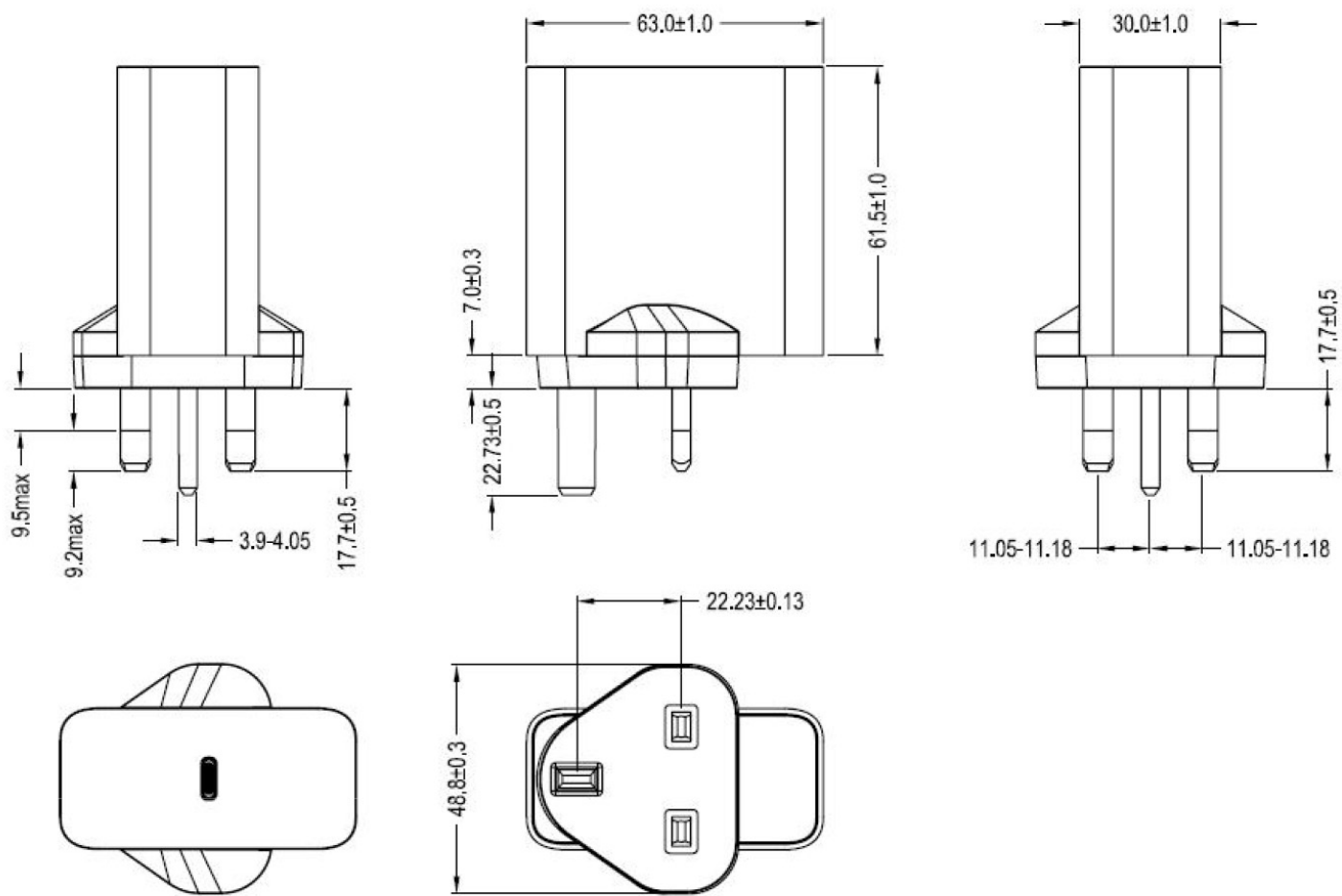
parameter	conditions/description	min	typ	max	units
operating temperature		-10		40	°C
storage temperature		-20		80	°C
operating humidity	non-condensing	20		98	%
storage humidity	non-condensing	20		98	%
altitude				2,000	m

MECHANICAL

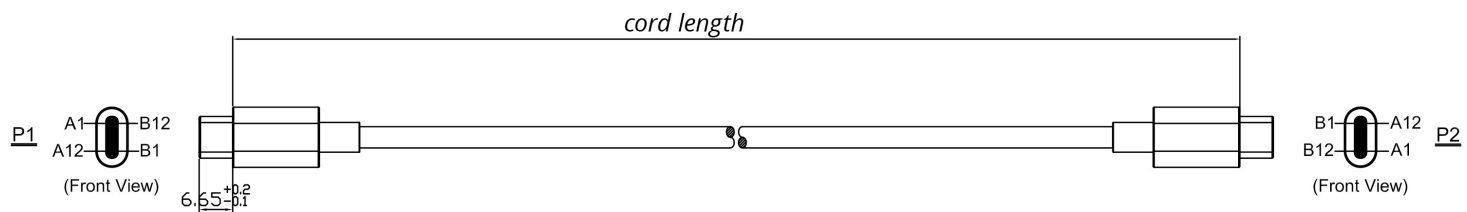
parameter	conditions/description	min	typ	max	units
dimensions	63.0 x 61.5 x 30.0				mm
inlet plug	United Kingdom, 3-pin				
DC output	USB Type C				
weight	tolerance ±5%		200.8		g

MECHANICAL DRAWING

units: mm



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	07/21/2026

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



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CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

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