

SERIES: SWI65CC-N | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

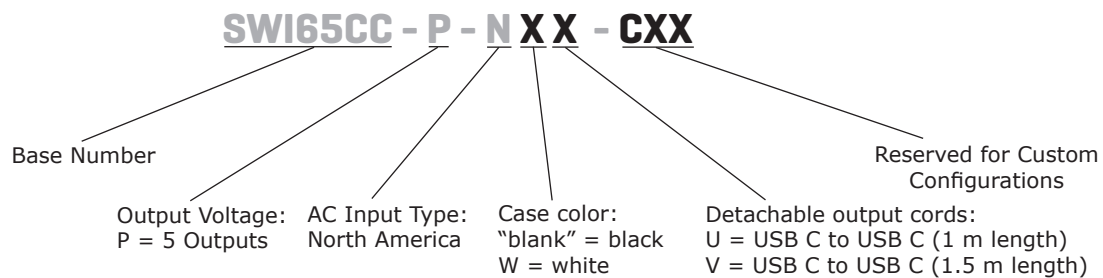
- up to 65W of continuous power
- North America flip-blade input
- 2 integrated USB-C ports
- compliant with Class B USB Type-C power delivery specification
- designed to meet PD 3.0, PPS, Apple 2.4A, BC1.2
- certified to UL 62368-1; UL/cUL, FCC
- over-voltage, short-circuit, and over-current protection
- customization available



MODEL	output type		output voltage typ (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
SWI65CC-N	PD + Type C1	fixed	5	3.0	15	150	VI
			9	3.0	27	200	VI
			12	3.0	36	250	VI
			15	3.0	45	250	VI
			20	3.25	65	350	VI
		programmable	5~21	3.0	65	200	VI
	PD + Type C2	fixed	5	3.0	15	150	VI
			9	2.22	20	200	VI
			12	1.67	20	250	VI
			programmable	5~11	2.0	65	200

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF ceramic and 10 µF aluminum electrolytic capacitors.

PART NUMBER KEY



Note: The color of the DC cord matches the color of the product.

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at 100 ~ 240 Vac			1.7	A
leakage current				0.25	mA
no load power consumption	at 230 Vac			0.3	W

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%
line regulation			±5		%
start-up time				3	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	internal protection clamp				
	5 Vdc output			7.5	V
	9 Vdc output			11.25	V
	12 Vdc output			15.0	V
	15 Vdc output			19.0	V
	20 Vdc output			25.0	V
over current protection	auto recovery or latch mode			4.5	A
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 5 mA for 1 minute		3,000		Vdc
safety approvals	certified to 62368-1: UL/cUL				
EMI/EMC	FCC PART 15: Class B, ICES-003 Issue 7, NRCAN				
conducted emissions	EN 55032, Class B				
radiated emissions	EN 55032, Class B				
ESD	EN 55035, EN 61000-4-2 contact: ± 4 kV, air: ± 8 kV, perf. Criteria B				
radiated immunity	EN 55035, EN 61000-4-3 frequency: 80~1000 MHz, field strength: 3V/m, 80% AM (1KHz), perf. Criteria A				
EFT/Burst	EN 55035, EN 61000-4-4 power line: 1 kV, perf. Criteria B				
surge	EN 55035, EN 61000-4-5 power line ±1kV, line to earth ±2 kV, 90°C / -270°C				
conducted immunity	EN 55035, EN 61000-4-6 frequency range: 0.15~80 MHz (0.15~10 MHz, 3V; 10~30 MHz; 3~1V; 30~80 MHz; 1V) field strength: 3 A/m with 80% amplitude modulation of 1KHz, perf. Criteria A				
MTBF	as per Telcordia SR-332 Issue 3, full load, at 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

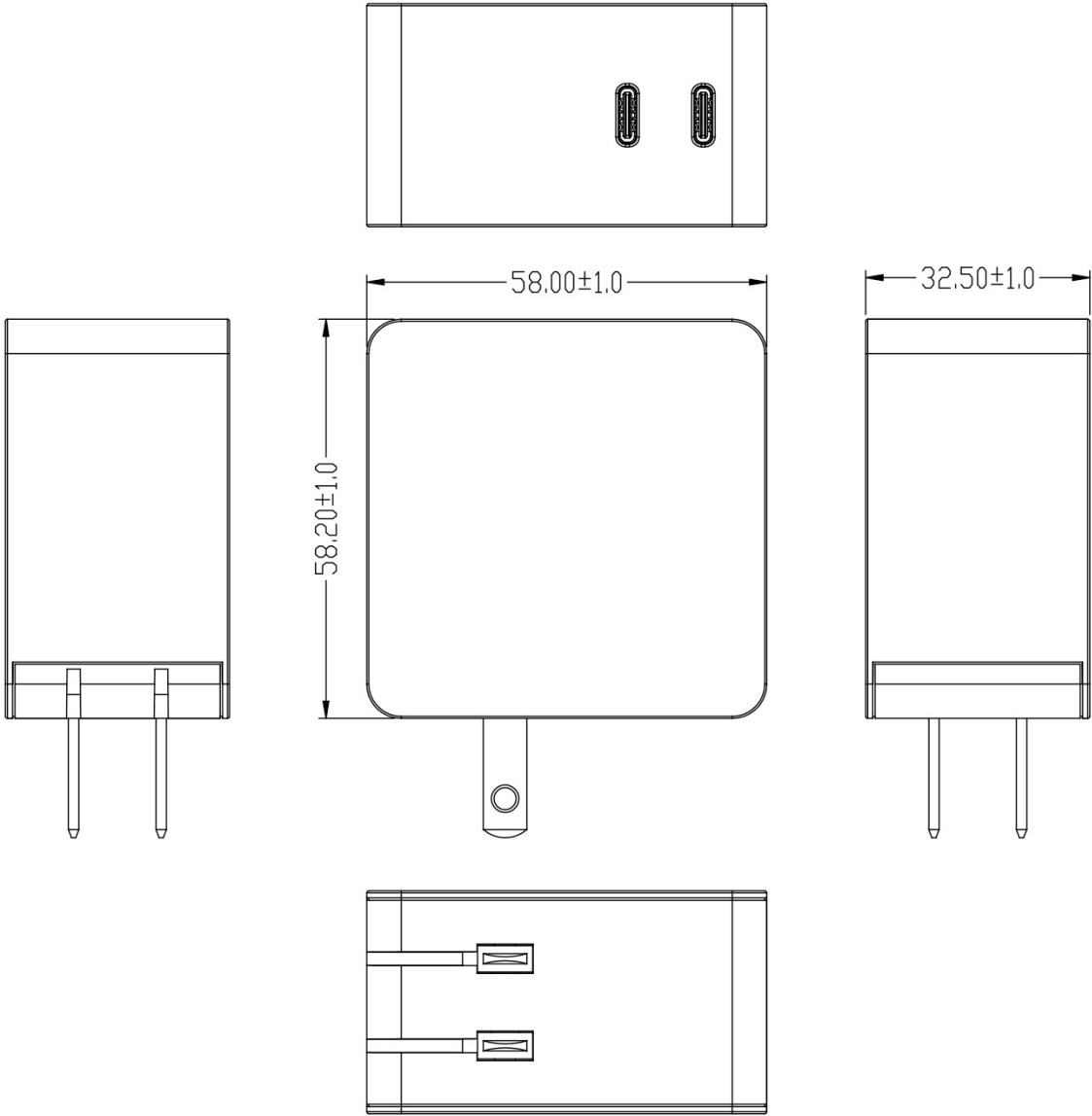
parameter	conditions/description	min	typ	max	units
operating temperature		0		25	°C
storage temperature		-20		70	°C
operating humidity	non-condensing	5		95	%
storage humidity	non-condensing	5		95	%
altitude				2,000	m

MECHANICAL

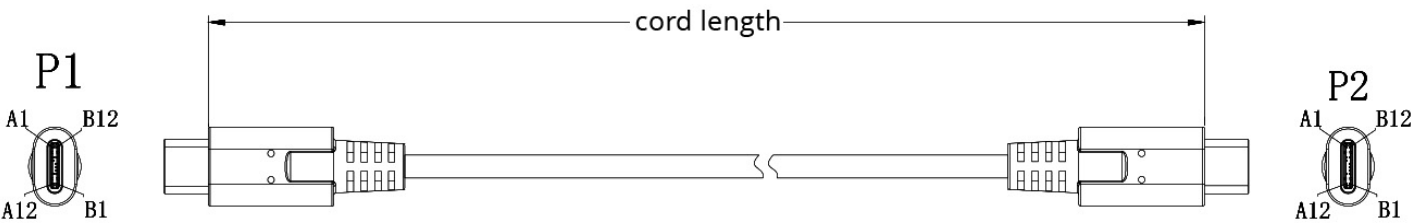
parameter	conditions/description	min	typ	max	units
dimensions	58.2 (L) x 58.0 (W) x 32.5 (H)				mm
inlet plug	2 pin, North America				

MECHANICAL DRAWING

units: mm



DC CORD



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

POWER DISTRIBUTION

POWER DISTRIBUTION 65W			Output Power (max)
Output port	C1	C2	
Single port output	PD 65W	-	65W
	PD 45W (The power drop to 45W after reaching the preset temperature)	-	45W
	-	PD 20W	20W
Combined output	PD 45W	PD 20W	65W
	PD 20W	PD 20W	40W

REVISION HISTORY

rev.	description	date
1.0	initial release	10/06/2025

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



15575 SW Sequoia Pkwy #100
Portland, OR 97224
800.275.4899

Fax 503.612.2383
Belfuse.com
powersupport@belf.com

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.