

SERIES: SCI30AC | **DESCRIPTION:** DC-DC CONVERTER

FEATURES

- up to 30 W continuous power
- 2-port automotive USB quick charger
- USB-C port supports up to 30 W
- USB-A port supports up to 30 W
- automotive auxiliary power input: 12~24 Vdc
- supports PPS/PD3.0/PD2.0/QC4+/QC4/QC3.0/QC2.0/AFC/FCP/SCP/PE2.0/PE1.1/SFCP
- certified to IEC 62368-1
- 0 ~ 50°C operating temperature



MODEL	output type	output voltage ¹	output current	output power	ripple and noise ²	efficiency level
		typ (Vdc)	max (A)	max (W)	max (mVp-p)	min (%)
SCI30AC	Type-A output	5	3	15	200	90
		9	3	27	200	90
		12	2.5	30	200	90
	Type-C output	5	3	15	200	90
		9	3	27	200	90
		12	2.5	30	200	90
		15	2	30	200	90
	Type A + Type-C output	20	1.5	30	200	90
		5	4	20	200	90

Notes: 1. The input voltage must be at least 1 V higher than the output voltage. At input DC 10~12 V, only DC 5 V and 9 V output. When input DC 24~30 V, output DC 5 V, 9 V, 12 V, 15 V and 20 V.
2. Measured at 20 MHz, and output parallel with 0.1μF & 10μF capacitors to ground, at 25°C, nominal AC input voltage.

PART NUMBER KEY

SCI30AC - TP

Base Number

INPUT

parameter	conditions/description	min	typ	max	units
voltage		10	12~24	30	Vdc
current				3	A

OUTPUT

parameter	conditions/description	min	typ	max	units
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	single port output			4	A
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
safety approvals	certified to 62368-1: IEC				
EMI/EMC	CE (EN 55032)				
MTBF	as per Telcordia Technologies SR-332 at 25°C	50,000			hours
RoHS	yes				

ENVIRONMENTAL

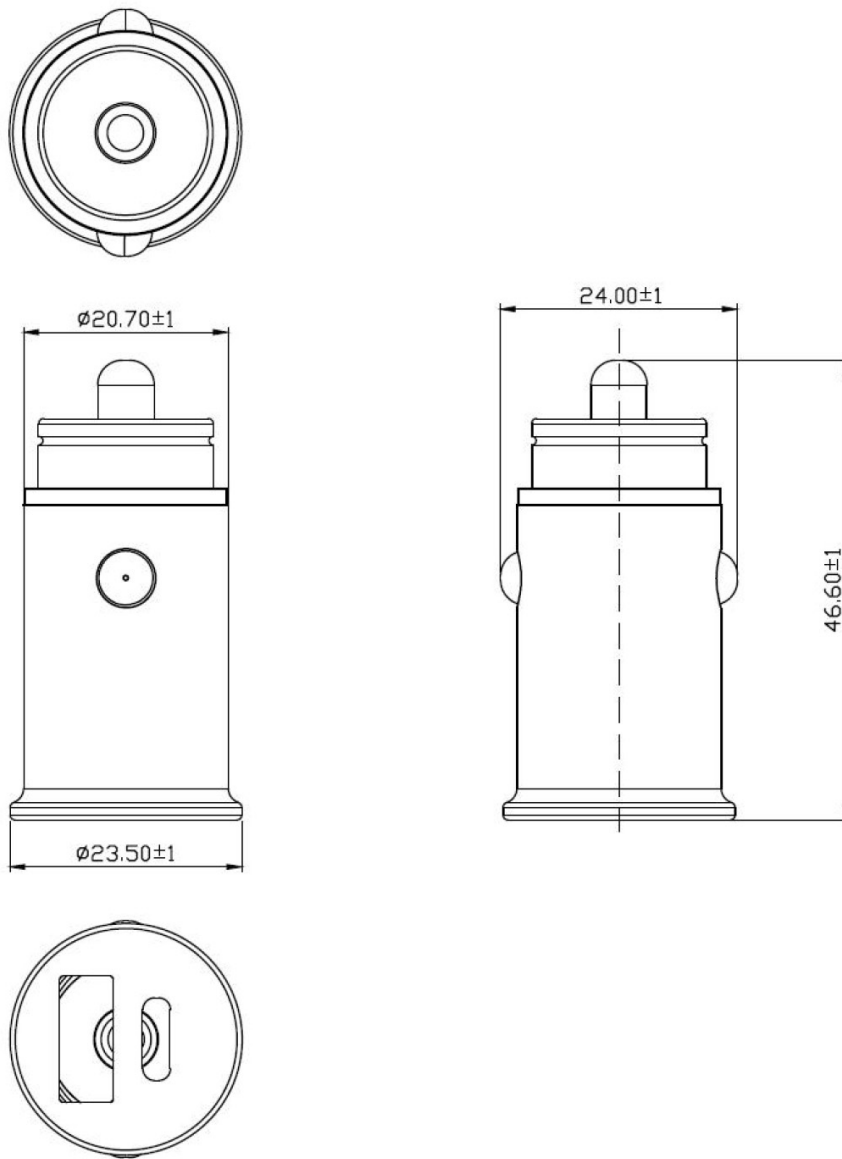
parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	47.6 (L) x 25 (W)				mm
configuration	car charger, contact input, USB type-A, type-C output				
input plug	car charger, contact input				
weight	tolerance: ±15%		19		g
color	black				
cooling	natural convection				

MECHANICAL DRAWING

units: mm



REVISION HISTORY

rev.	description	date
1.0	initial release	01/22/2025

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.