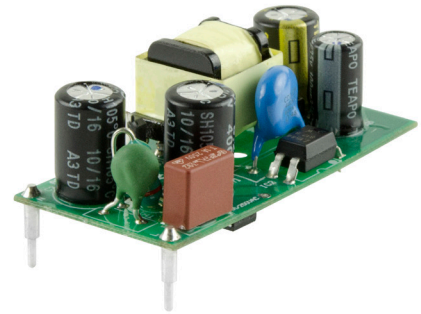


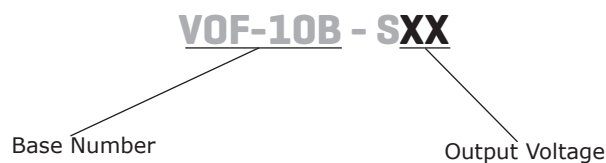
SERIES: VOF-10B | **DESCRIPTION:** AC-DC POWER SUPPLY**FEATURES**

- up to 10 W continuous power
- universal input: 85~264 Vac
- compact open-frame design
- single output from 5 Vdc ~ 24 Vdc
- short circuit, over voltage protection, over current protection
- 4000 Vac isolation
- no load power consumption <100 mW



MODEL	output voltage	output current	output power	ripple and noise ¹	efficiency
	(Vdc)	max (A)	max (W)	typ (mVp-p)	typ (%)
VOF-10B-S5	5	2	10	100	79
VOF-10B-S9	9	1.1	10	100	82.14
VOF-10B-S12	12	0.85	10.2	120	82.32
VOF-10B-S15	15	0.7	10.5	150	82.49
VOF-10B-S24	24	0.45	10.8	240	82.49

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 10 μ F electrolytic and 0.1 μ F ceramic capacitors.
 2. All specifications are measured at Ta=25°C, nominal input voltage, and 75% rated output load unless otherwise specified.

PART NUMBER KEY

INPUT

parameter	conditions/description	min	typ	max	units
voltage		85 120		264 370	Vac Vdc
frequency		47		63	Hz
current				0.3	A
inrush current	at 240 Vac, 25°C, cold start			50	A
leakage current				0.25	mA
no load power consumption				0.10	W

OUTPUT

parameter	conditions/description	min	typ	max	units
capacitive load	5 Vdc output model			2,000	μF
	9 Vdc output model			1,100	μF
	12 Vdc output model			850	μF
	15 Vdc output model			700	μF
	24 Vdc output model			450	μF
initial set point accuracy	at full load, 25°C		±2		%
line regulation	high line to low line at full load		±0.5		%
load regulation	10%~100% load		±3		%
hold-up time	at 115 Vac		12		ms
switching frequency	at 115 Vac, full load		85		kHz
	at 230 Vac, full load		65		kHz
temperature coefficient			±0.05		%/°C

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	hiccup, auto recovery				
over current protection		110			%
short circuit protection	hiccup, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output		4,000		Vac
safety approvals	IEC62368-1/60950-1, UL62368-1/60950-1				
safety class	class II				
EMI/EMC	EN 55032 Class B, FCC Part 15 Class B, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61204-3, EN 61000-6-1				
MTBF	as per MIL-STD-217F, at 115 Vac, 25°C, GB	300,000			hours
life time	at 40°C, 75% load	3			years
RoHS	yes				

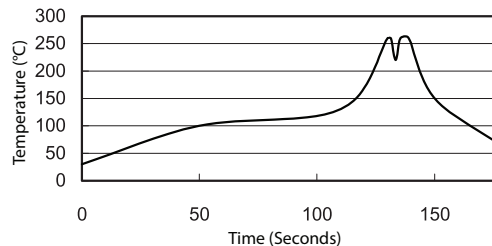
ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curve	-25		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing			93	%
operating altitude			3000		m

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	see wave soldering profile			260	°C

- Notes:
1. Soldering materials: Sn/Cu/Ni
 2. Ramp up rate during preheat: 1.4°C/s (from 50°C to 100°C)
 3. Soaking temperature: 0.5°C/s (from 100°C to 130°C), 60±20 seconds
 4. Peak temperature: 260°C, above 250°C for 3~6 seconds
 5. Ramp down rate during cooling: -10°C/s (from 260°C to 150°C)



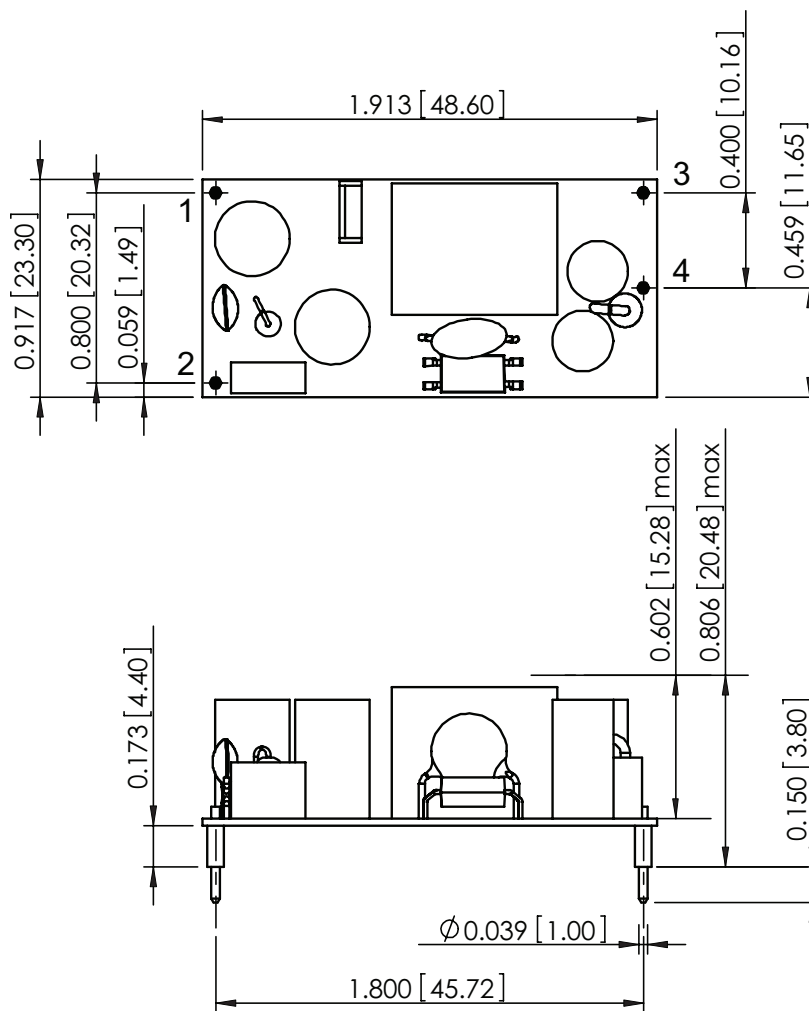
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	1.913 x 0.917 x 0.806 (48.60 x 23.30 x 20.48 mm)				inch
weight			14		g
cooling	natural convection				

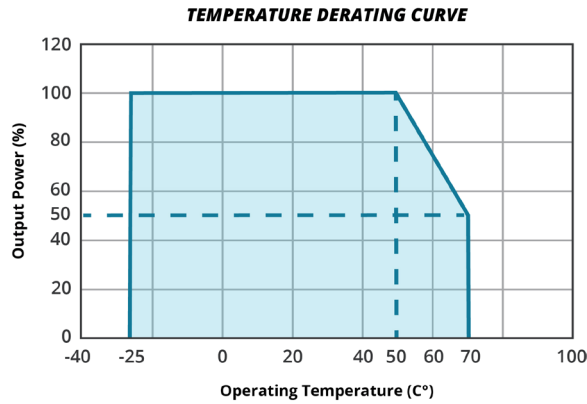
MECHANICAL DRAWING

units: inch [mm]
 tolerance: X.XXX = ±0.020 [±0.50]

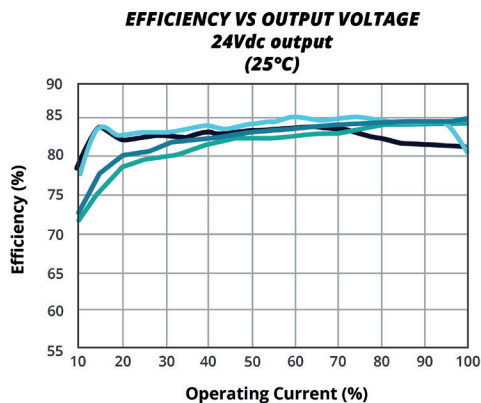
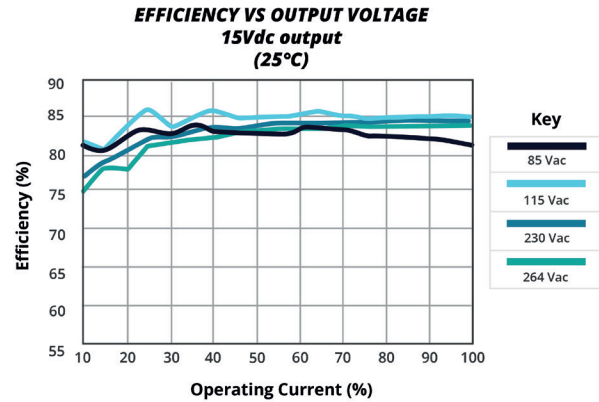
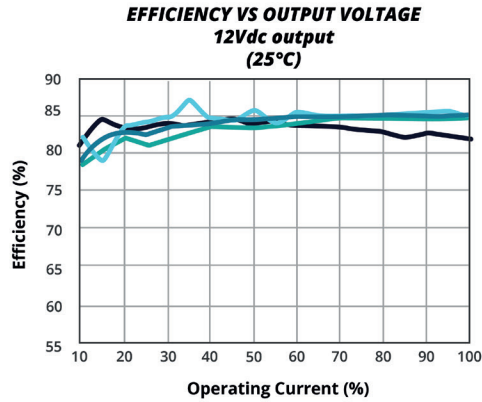
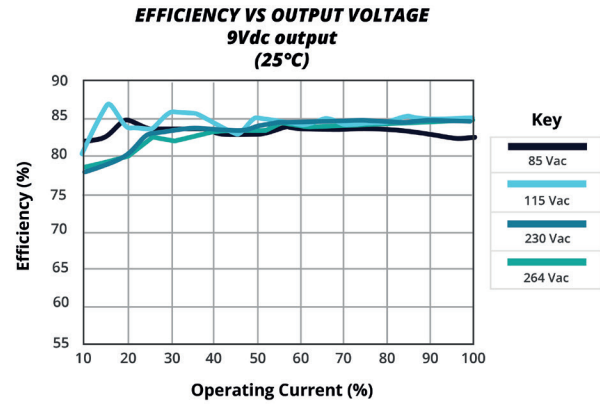
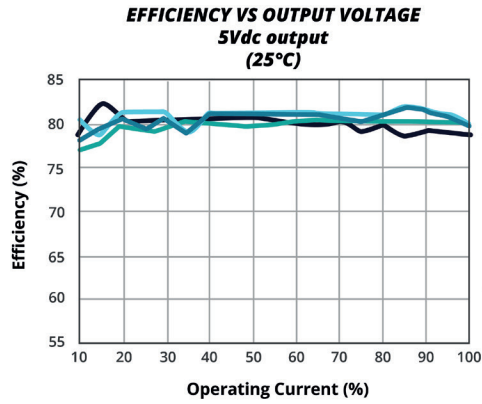
PIN CONNECTIONS	
PIN	Function
1	ACN
2	ACL
3	+Vout
4	-Vout



DERATING CURVE



EFFICIENCY CURVES



REVISION HISTORY

rev.	description	date
1.0	initial release	02/23/2017
1.01	updated datasheet	01/08/2019
1.02	company logo updated	12/03/2020
1.03	derating and efficiency curves updated	03/26/2021

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



CUI INC

a bel group

Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

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