

INPUT

parameter	conditions/description	min	typ	max	units
voltage		80		264	Vac
frequency		47		63	Hz
current	at 115 Vac, full load at 230 Vac, full load		2.2 1.1		A A
inrush current	at 230 Vac, cold start			45	A
leakage current	at 230 Vac		0.3		mA
power factor	at full load	0.95			
no load power consumption				0.5	W
input fuse	3.15 A/250 V time delay fuse (included)				

OUTPUT

parameter	conditions/description	min	typ	max	units
initial set point accuracy			±1		%
line regulation			±0.5		%
load regulation	from 100% to 10% load		±1		%
start-up delay time			2		s
rise time	at 115/230 Vac		55		ms
hold-up time	at 115/230 Vac		10		ms
adjustability ¹	built in trim pot		±3		%
switching frequency		50		300	kHz
transient response	25% step load change, at 0.1 A/μS slew rate, 50% duty cycle, 50/60 Hz, max excursion 4%, recovery time 5 ms				
temperature coefficient	at 0~50°C		±0.05		%/°C
fan output ²	12 Vdc / 500 mA				

Notes: 1. Adjustment potentiometer is located on the SMT side of the PCB.
2. Fan supply output voltage tolerance including set point accuracy, line and load regulation is ±10% and ripple and noise is less than 10%.

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	hiccup, auto recovery	110		140	%
over current protection	hiccup, auto recovery	110			%
short circuit protection	hiccup, auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output input to ground		3,000 1,500		Vac Vac
safety approvals	EN 60950-1, IEC 60950-1 (ed.2), UL 60950 (ed.2), CSA C22.2 No. 60950-1 (ed.2), Class 1 SELV complies with LVD directive				
safety class	class I				
conducted emissions	EN 55032 Class B				
radiated emissions	EN 55032 Class B (to be controlled in end system with external core (King core K5B RC 25 x 12 x 15-M in input cable (5 turns))				
input current harmonics	EN 61000-3-2, class D				
voltage fluctuation and flicker	EN 61000-3-3, pass				
ESD immunity	EN 61000-4-2, level 3, criterion A				

Notes: 3. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

SAFETY & COMPLIANCE

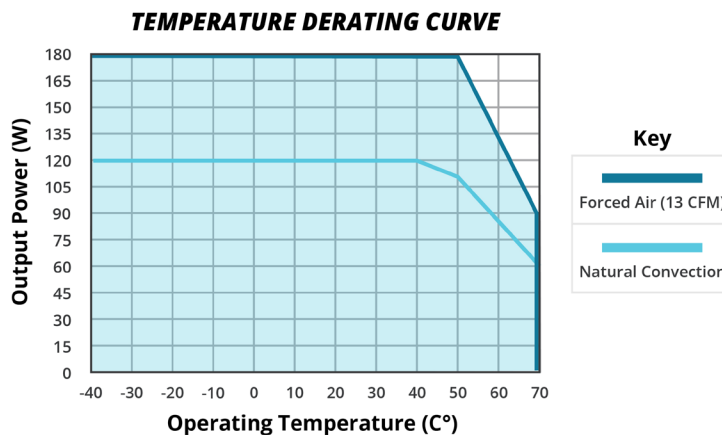
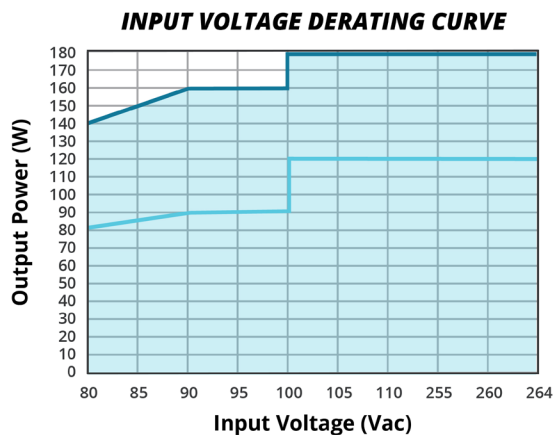
parameter	conditions/description	min	typ	max	units
radiated field immunity	EN 61000-4-3, level 3, criterion A				
electrical fast transient immunity	EN 61000-4-4, level 3, criterion A				
surge immunity	EN 61000-4-5, level 3, criterion A				
conducted immunity	EN 61000-4-6, level 3, criterion A				
magnetic field immunity	EN 61000-4-8, level 3, criterion A				
voltage dips, interruptions	EN 61000-4-11, criterion B				
MTBF	as per Telcordia-SR332-issue 3		3,370,000		hours
RoHS	2011/65/EU				

Notes: 1. The power supply is considered a component which will be installed into final equipment. The final equipment still must be tested to meet the necessary EMC directives.

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature	see derating curves	-40		70	°C
storage temperature		-40		85	°C
operating humidity	non-condensing	20		90	%
storage humidity	non-condensing	20		90	%
operating altitude				16,000	ft

DERATING CURVES



MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	4.00 x 2.00 x 0.75 (101.60 x 50.80 x 19.05 mm)				inch
weight			200		g
cooling	external fan				
J1 input connector	Mates with JST housing VHR-3M; pins SVH-41T-P1.1 or equivalent				
J2 output connector	Screw Type: Accepts 28 ~ 16 AWG wire Header Type: Mates with JST housing VHR-6M; pins SVH-41T-P1.1 or equivalent				
J3 fan connector	Mates with Tyco 640440-2				

MECHANICAL DRAWINGS

Screw Type

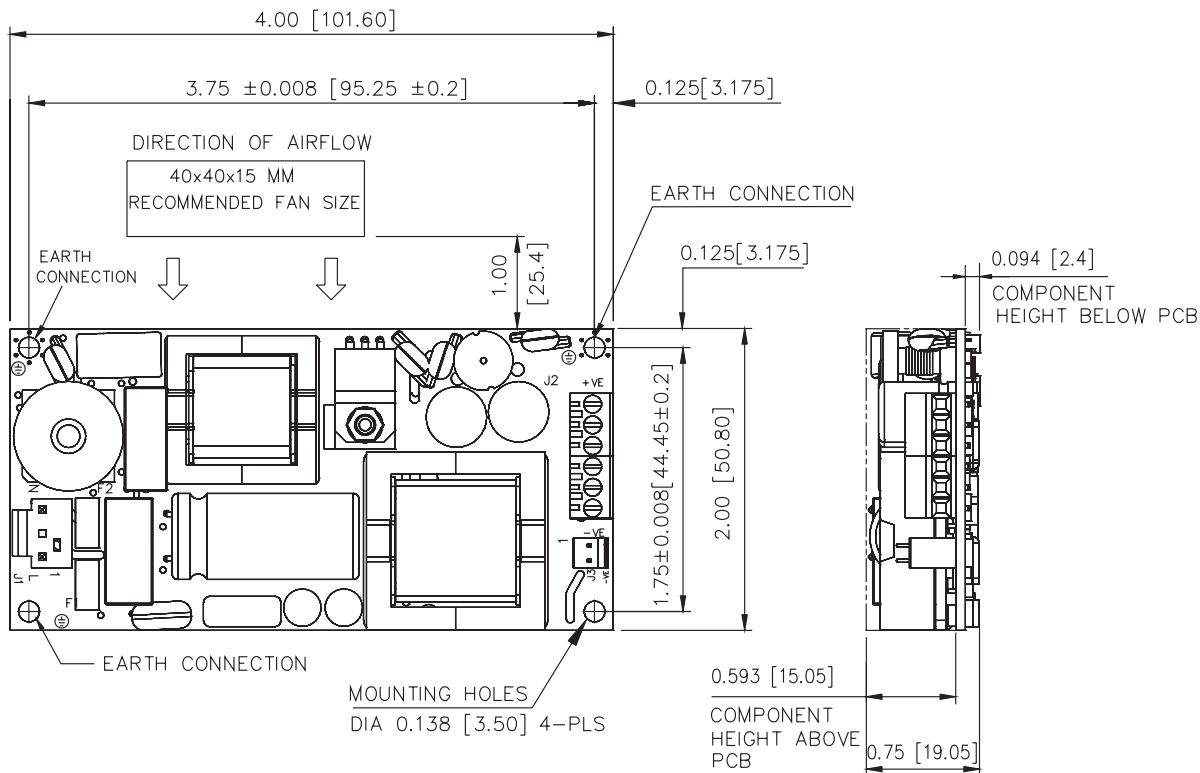
units: inch [mm]

tolerance: ±0.04 [±1.0]

J1	
PIN	Function
1	L
2	NC
3	N

J2	
PIN	Function
1	+VE
2	+VE
3	+VE
4	-VE
5	-VE
6	-VE

J3	
PIN	Function
1	+FAN
2	-FAN



MECHANICAL DRAWINGS (CONTINUED)

Header Type

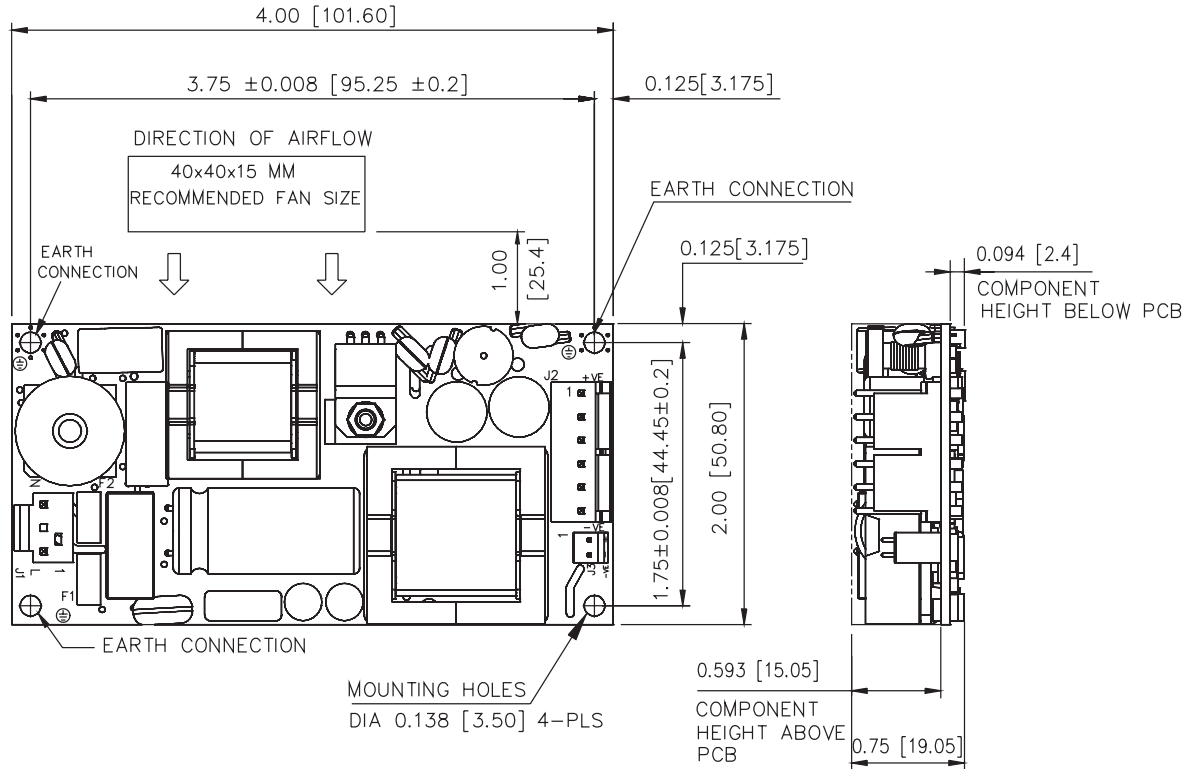
units: inch [mm]

tolerance: ±0.04 [±1.0]

J1	
PIN	Function
1	L
2	NC
3	N

J2	
PIN	Function
1	+VE
2	+VE
3	+VE
4	-VE
5	-VE
6	-VE

J3	
PIN	Function
1	+FAN
2	-FAN



REVISION HISTORY

rev.	description	date
1.0	initial release	09/01/2017
1.01	data update	01/08/2020
1.02	company logo updated	11/30/2020
1.03	derating curves updated	05/13/2021

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

CUI offers a two (2) 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.