



## 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				

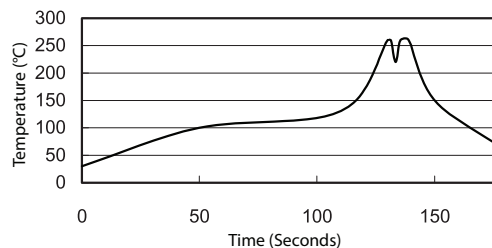
## ENVIRONMENTAL

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)



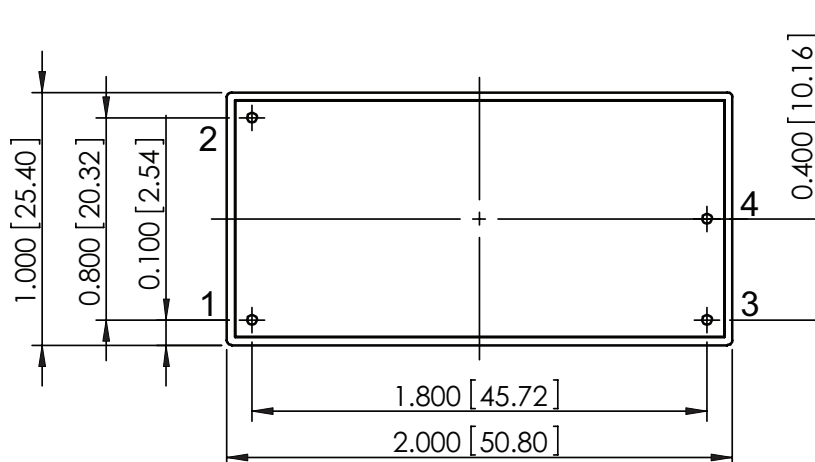
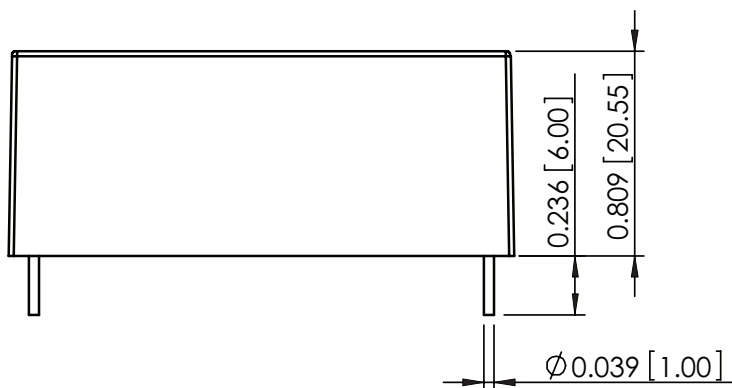
## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	2.000 x 1.000 x 0.809 (50.80 x 25.40 x 20.55 mm)				inch
weight			45		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

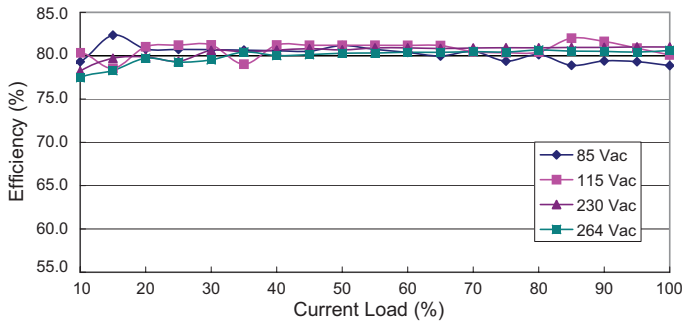


## DERATING CURVE

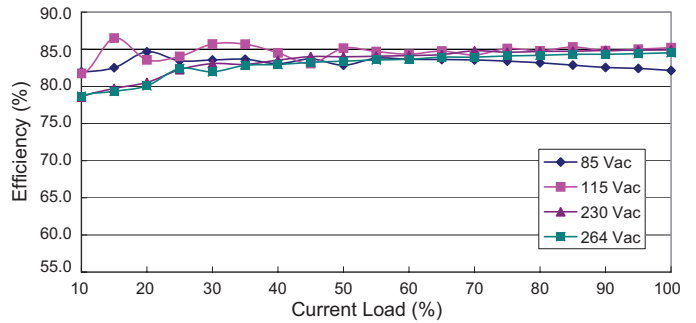


## EFFICIENCY CURVES

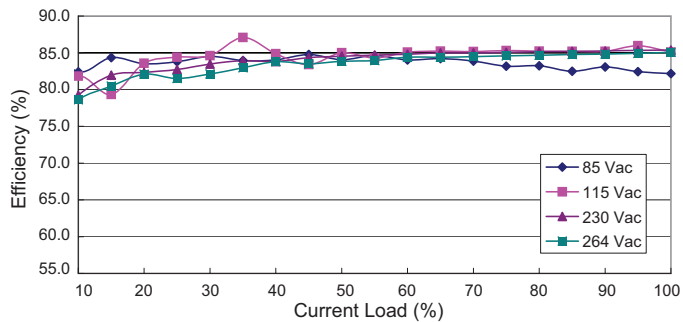
5 Vdc Output Efficiency Curve  
(at 25°C)



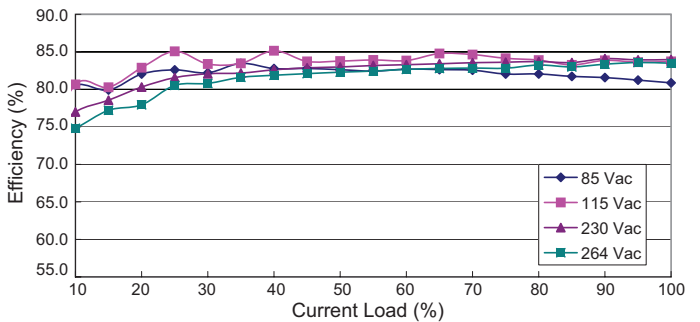
9 Vdc Output Efficiency Curve  
(at 25°C)



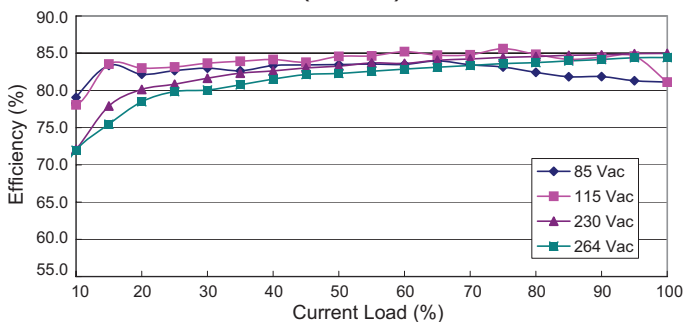
12 Vdc Output Efficiency Curve  
(at 25°C)



15 Vdc Output Efficiency Curve  
(at 25°C)



24 Vdc Output Efficiency Curve  
(at 25°C)



## REVISION HISTORY

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rev.	description	date
1.0	initial release	02/23/2017
1.01	updated datasheet	01/08/2019

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



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