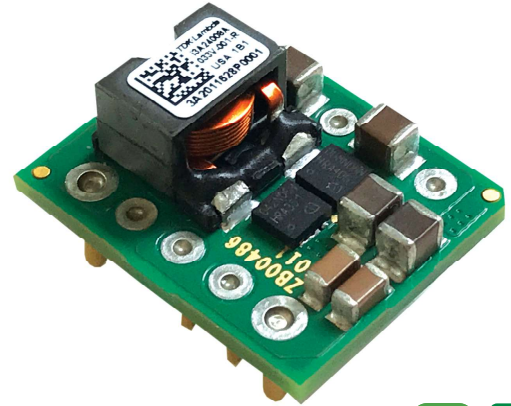


100W, 9 to 53V Input Non-isolated DC-DC Converters

Features

- ◆ 100W 4.5 or 8A Output
- ◆ 1/32nd brick Footprint
- ◆ Wide Output Adjustment 3.3 to 16.5V or 5 to 30V
- ◆ Minimal External Components Needed
- ◆ Constant Switching Frequency



Key Market Segments & Applications



Specifications			
Model		i3A4W008A033V	i3A4W005A150V
DC Output Voltage	V	3.3 - 16.5 (1)	5 - 30 (1)
DC Input Voltage	V	9 - 53 (Turn on at 10V or greater)	
Efficiency (Typical)	%	89 - 96.5	95.5 - 98
Output Voltage Tolerance	%	±4	
Switching Frequency	kHz	450	400
Line Regulation	%	0.3%	0.2%
Load Regulation	%	0.7%	0.5%
External Load Capacitance	uF	0 - 1200	
Output Ripple and Noise	mVpp	20	40
Overcurrent Protection (Typ)	A	14	9
Remote On / Off	-	Negative Logic (For Positive Logic Contact Factory)	
Remote Sense	-	(+) Sense, compensating up to 5% of output voltage	
Power Good	-	Optional, contact factory for status	
Operating Temperature	°C	-40 to 125 (see thermal data on website)	
Storage Temperature	°C	-55 to 125	
Safety Agency Certifications	-	UL/EN60950, CE Mark	
Weight	g / oz	8g / 0.29 oz	
Size (LxWxH)	mm / in.	19.1 x 23.4 x 9.6 / 0.75 x 0.92 x 0.38	
Warranty	yrs	3 years	

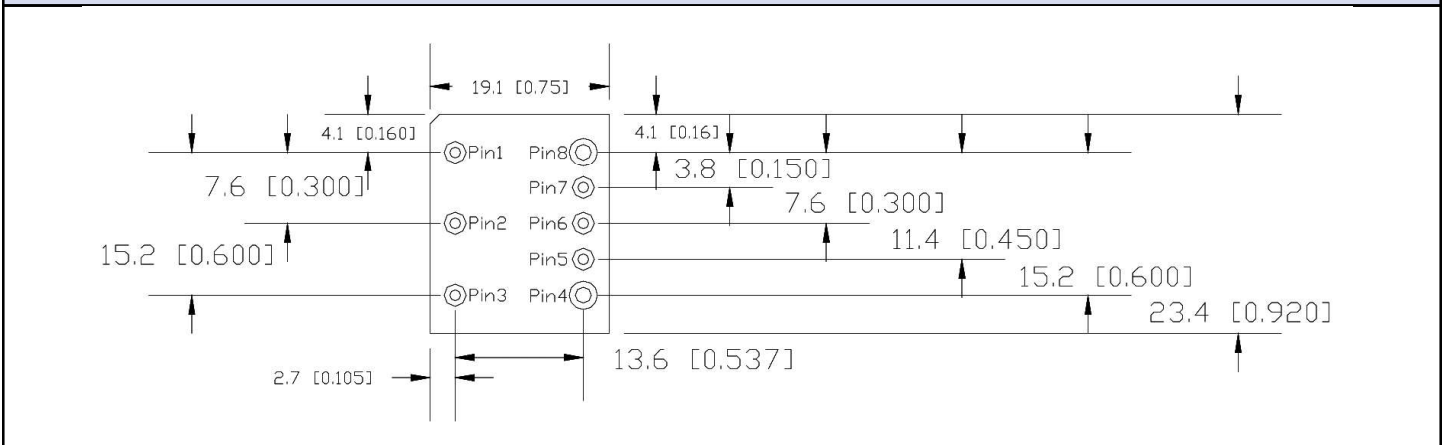
Note: (1) Output voltage cannot exceed input voltage (see graph on page 2)

Model Selector

Model	Input Voltage (V)	Output Current (A)	Output Voltage (V) (1)	Positive Logic On/Off	Negative Logic On/Off
i3A4W008A033V-001-R	9 - 53	8	3.3 - 16.5	-	Yes
i3A4W005A150V-001-R	9 - 53	4.5	5 - 30	-	Yes

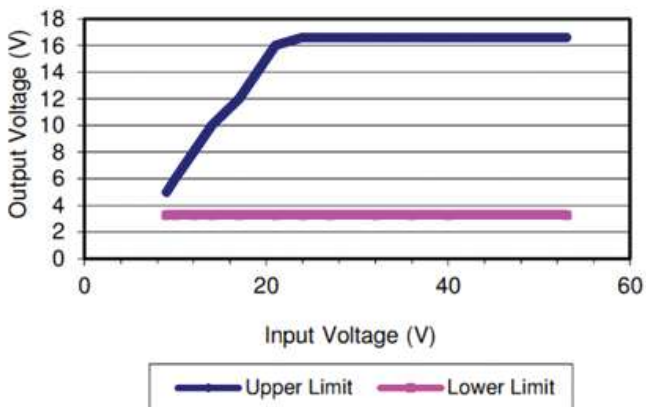
Note: (1) Output voltage cannot exceed input voltage (see graph below)

Outline Drawing



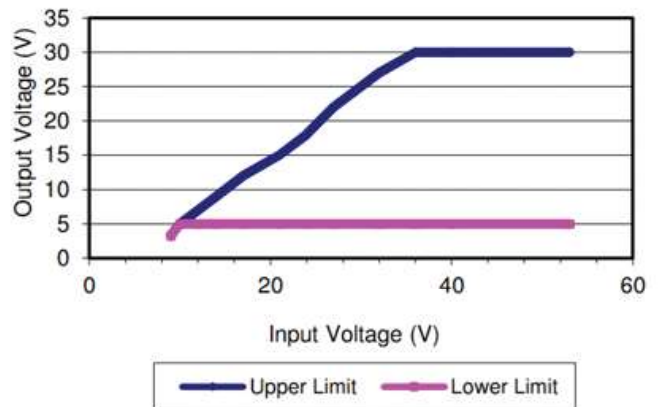
Output Voltage vs Input Voltage Operating Range

i3A4W008A033V



Output Voltage vs Input Voltage Operating Range

i3A4W005A150V



Pinout

PIN	Function	PIN	Function
1	VIN (+)	5	PWR GOOD (Option)
2	ON / OFF	6	TRIM
3	VIN (-)	7	SENSE (+)
4	VOUT (-)	8	VOUT (+)

For Additional Information, please visit us.tdk-lambda.com/lp/products/i6a-series.htm

