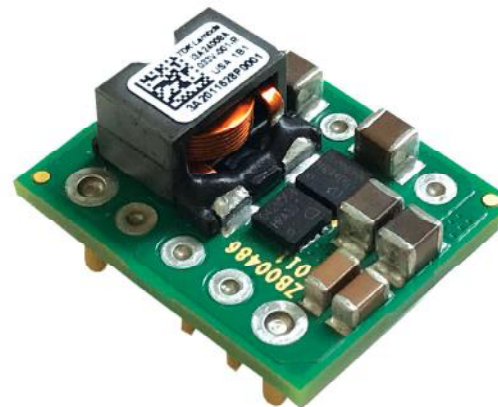


## 100W, 9 to 53V Input Non-isolated DC-DC Converters

### 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/EN/IEC 60950-1, 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)  
 (2) Consult the Full Datasheet for additional product information.

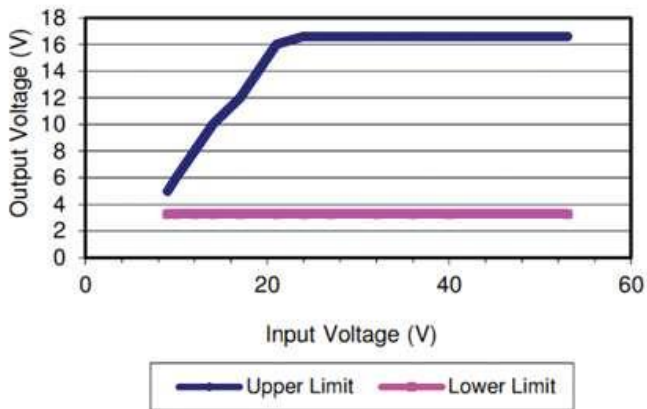
## Model Selector

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

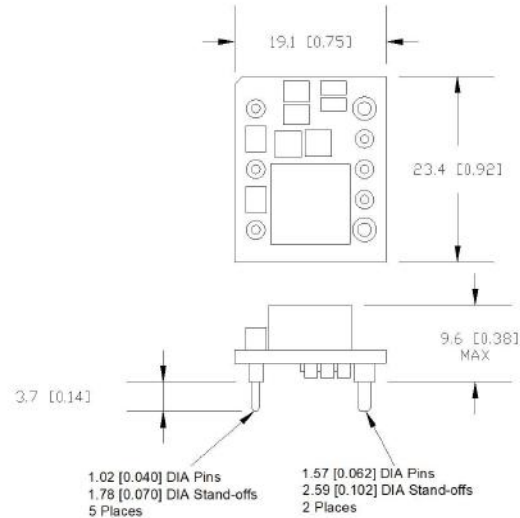
Note: (1) Output voltage cannot exceed input voltage (see graph below)

## Output Voltage vs Input Voltage Operating Range

### i3A4W008A033V

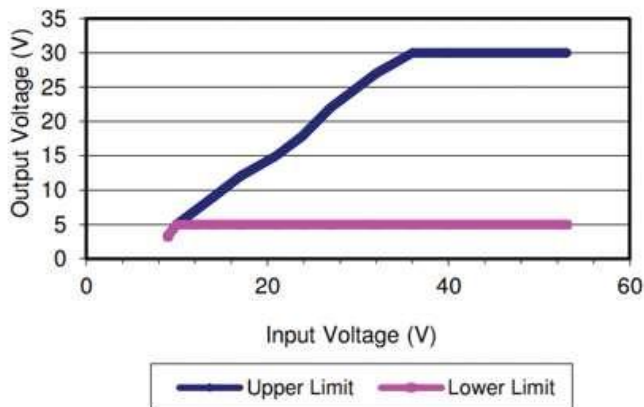


## Mechanical Specification

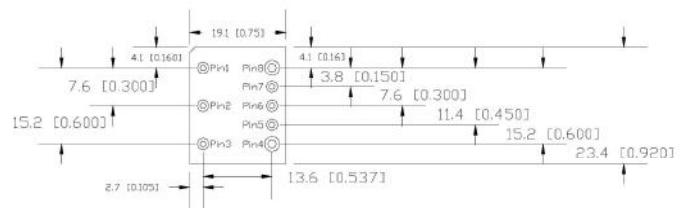


## Output Voltage vs Input Voltage Operating Range

### i3A4W005A150V



## Recommended Hole Pattern (top view)



## Evaluation Board

Evaluation kit part #	Contents
i3A5A8A-001-EVK-D2PP	Populated with one piece i3A4W008A033V-001-R and one piece i3A4W005A150V-001-R

## 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 <https://product.tdk.com/info/en/products/power/index.html>

