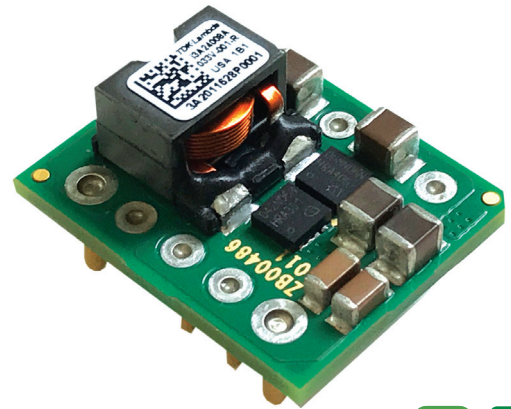


100W, 9 to 53V Input Non-isolated DC-DC Converters

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 | - | IEC/UL/CSA/EN62368-1, 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.

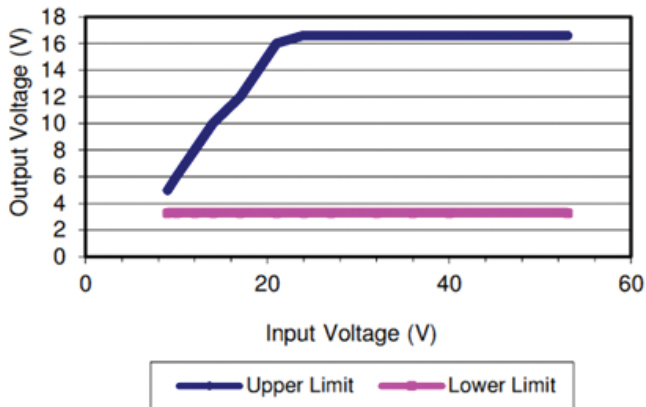
Model Selector

| 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 |

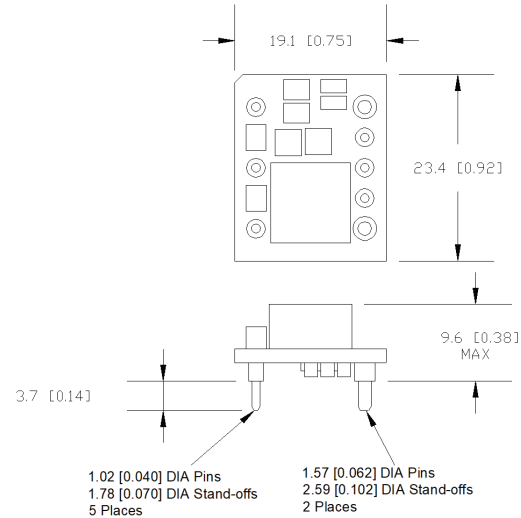
Note: (1) Output voltage cannot exceed input voltage (see graph below)

Output Voltage vs Input Voltage Operating Range

i3A4W008A033V

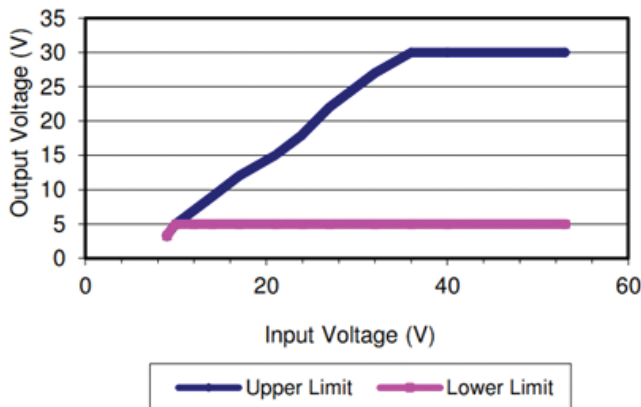


Mechanical Specification



Output Voltage vs Input Voltage Operating Range

i3A4W005A150V



Recommended Hole Pattern (top view)

