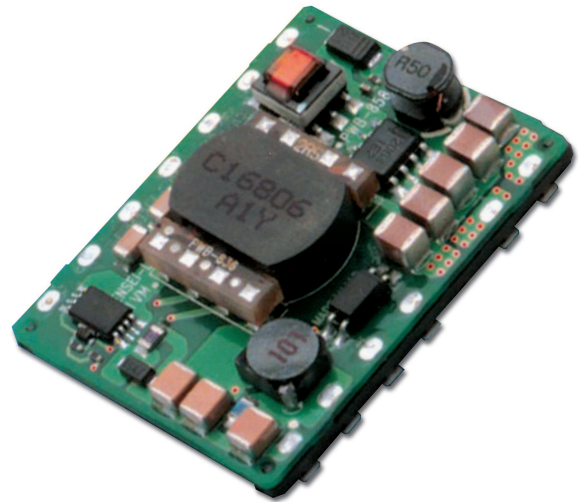


## 10 Watt, surface-mount DC-DC Converters

### Features

- ◆ Surface Mount Industry Standard Package
- ◆ Low voltage outputs to 1.2V
- ◆ Designed for telecom standards
- ◆ Output voltage adjustment
- ◆ Remote On / Off, trim, and Module Good signals
- ◆ Suitable for parallel connection
- ◆ Industry standard package
- ◆ Global safety agency approvals



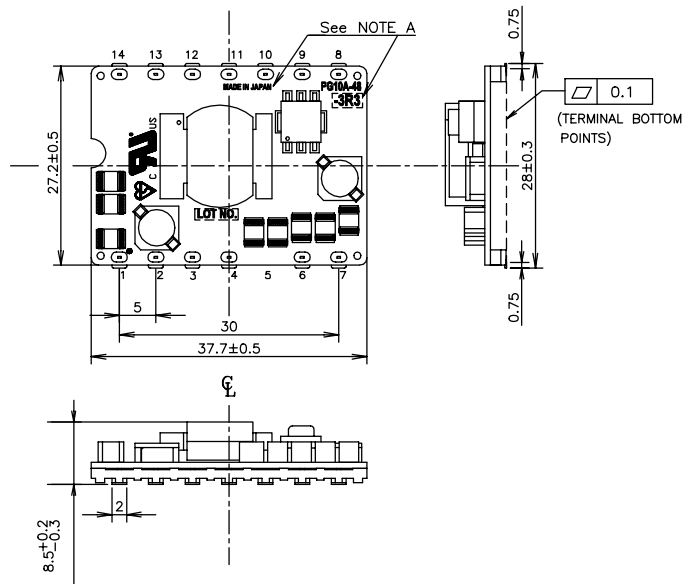
### Specifications

| Model                     |     | PG10A48-1R2                                                                           | PG10A48-1R5   | PG10A48-1R8 | PG10A48-2R5   | PG10A48-3R3   | PG10A48-5   |
|---------------------------|-----|---------------------------------------------------------------------------------------|---------------|-------------|---------------|---------------|-------------|
| Nominal Output Voltage    | VDC | 1.2                                                                                   | 1.5           | 1.8         | 2.5           | 3.3           | 5           |
| Output Current (Max)      | A   | 3.5                                                                                   | 3.5           | 3           | 3             | 3             | 2           |
| Max Output Power          | W   | 4.2                                                                                   | 5.25          | 5.4         | 7.5           | 9.9           | 10          |
| Efficiency (Typ)          | %   | 79                                                                                    | 81            | 82          | 84            | 86            | 88          |
| Input Voltage range       | VDC | 36 - 76V                                                                              |               |             |               |               |             |
| Input Current (typ)       | A   | 0.111                                                                                 | 0.135         | 0.137       | 0.186         | 0.24          | 0.237       |
| Output Voltage Accuracy   | %   | ±1                                                                                    |               |             |               |               |             |
| Output Voltage Adjustment | %   | 1.14 - 1.26                                                                           | 1.425 - 1.575 | 1.71 - 1.89 | 2.375 - 2.625 | 3.135 - 3.465 | 4.75 - 5.25 |
| Max Ripple / Noise        | mV  | 30 / 100 (Under specified conditions)                                                 |               |             |               |               |             |
| Max Line Regulation       | mV  | 10                                                                                    | 10            | 10          | 20            | 30            | 50          |
| Max Load Regulation       | mV  | 75                                                                                    |               |             |               |               |             |
| Overcurrent Protection    | -   | >105%                                                                                 |               |             |               |               |             |
| Overvoltage Protection    | -   | 110 - 140%                                                                            |               |             |               |               |             |
| Remote On / Off           | -   | Open connection = Power Supply Off, connect to +Vin to enable output                  |               |             |               |               |             |
| Parallel Connection       | -   | Yes, up to five units                                                                 |               |             |               |               |             |
| Module Good Signal        | -   | Open collector signal, goes low during overcurrent or overvoltage conditions          |               |             |               |               |             |
| Operating Temperature     | °C  | -40°C to +85°C ambient with 0.5m/s forced air                                         |               |             |               |               |             |
| Operating Humidity        | -   | 30 - 95% Non condensing                                                               |               |             |               |               |             |
| Storage Temperature       | °C  | -40°C to +100°C (after installation)                                                  |               |             |               |               |             |
| Storage Humidity          | -   | 30 - 95% Non condensing (after installation)                                          |               |             |               |               |             |
| Cooling                   | -   | Convection, or forced air                                                             |               |             |               |               |             |
| I/O Isolation Voltage     | VDC | Input to Output 1500VDC                                                               |               |             |               |               |             |
| Vibration (non operating) | -   | 10 - 55Hz (1 minute), amplitude 0.825mm (49m/s <sup>2</sup> max), X, Y, Z 1 hour each |               |             |               |               |             |
| Shock                     | -   | 196.1 m/s <sup>2</sup>                                                                |               |             |               |               |             |
| Safety Agency Approvals   | -   | UL1950, CSA950, EN60950, & CE                                                         |               |             |               |               |             |
| Weight (Typ)              | g   | 12                                                                                    |               |             |               |               |             |
| Size (WxDxH)              | mm  | 28 x 8.7 x 37.7                                                                       |               |             |               |               |             |
| Warranty                  | yrs | One Year                                                                              |               |             |               |               |             |

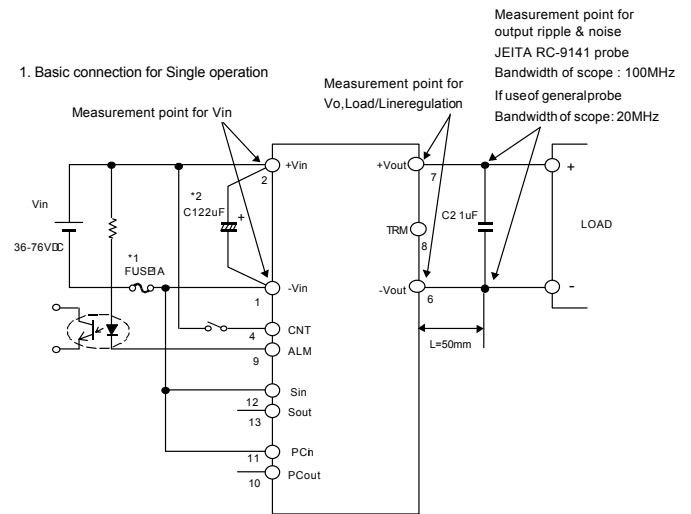
Note: See Installation Manual for full details, test methods of parameters and application notes

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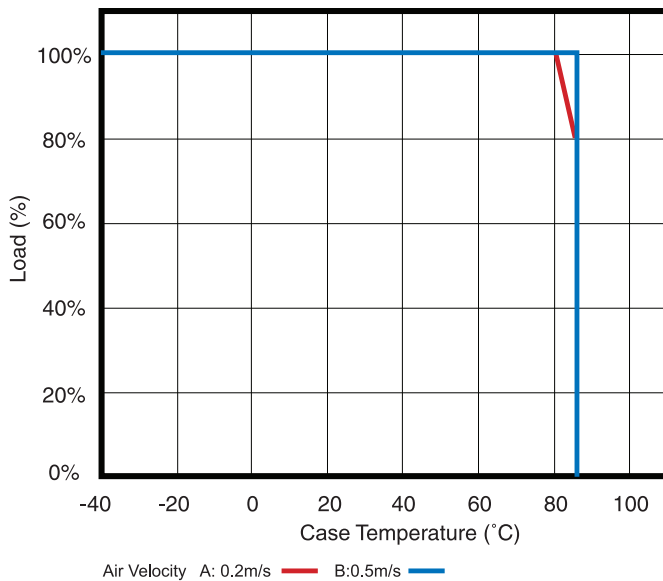
## Outline Drawing



## Connection Diagram



## PG10 Derating Curve



## Other DC-DC Products

|     |                                                  |
|-----|--------------------------------------------------|
| X   | 10, 15, & 20W 24V & 48VDC input DC-DC converters |
| PAF | 500 & 600W Full brick DC-DC                      |
| PAH | 50W to 200W Half brick DC-DC                     |
| PAQ | Up to 100W Quarter brick DC-DC                   |
| SX  | 20W surface mount 24V & 48VDC-DC                 |

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/pg10a-series.htm](http://us.tdk-lambda.com/lp/products/pg10a-series.htm)



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