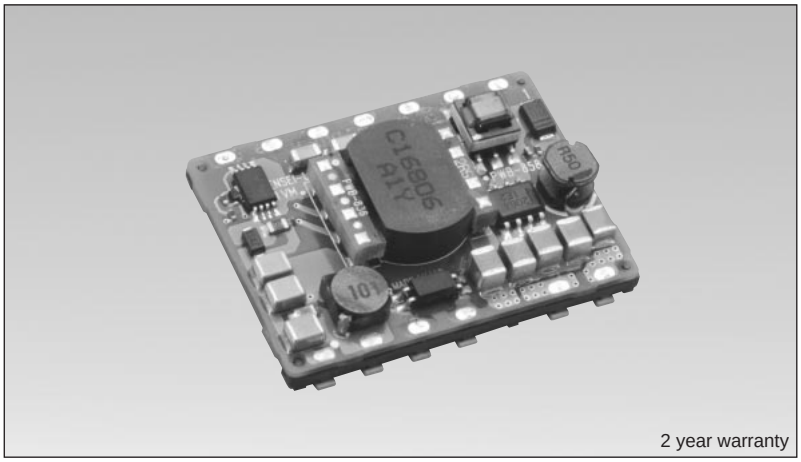
# PG10A-SERIES

SMD type Single output DC-DC power module

LAMBDA
DENSEI-LAMBDA




## ■ Model name

**PG 10 A 48-1R2**

- PG: Name of series
- 10: Output power
- A: Nominal input voltage
- 48: Nominal input voltage
- 1R2: Nominal output voltage

## ■ Features

- SMD design (10W type) for lead-free soldering process.
- No heatsink required: convection air cooled operation.
- Parallel operation applicable: capacity increase and redundant operation possible.
- Low output voltage model selectable: 1.2V - 5V (6 types).
- Patent and design registration pending.
- 2 year warranty.

## ■ Specifications

| | |
|---|---|
| **1. Input voltage range** | DC48V (DC36 ~ 76V) |
| **2. Max. output wattage** | 10W |
| **3. Rated output voltage** | 6 types : 1.2V /1.5V / 1.8V / 2.5V / 3.3V / 5V |
| **4. Output voltage adj range** | –5 ~ +5% |
| **5. Efficiency (typ.)** | 1.2V : 79% / 1.5V : 81% / 1.8V : 82% / 2.5V : 84% / 3.3V : 86% / 5V : 88% |
| **6. Cooling** | Convection cooling |
| **7. Operating ambient temperature** | –40 ~ +85°C (derating required depending on the temperature condition) |
| **8. Withstand voltage** | Input-output isolation type: DC1.5kV, 1 min., between input and output |
| **9. Protection functions** | Overcurrent protection, overvoltage protection |
| **10. Standard functions** | On/Off control, parallel operation, alarm signal output |
| **11. Safety standards** | Approved by UL60950, CSA60950 c UL us and EN60950 TÜV CE marking applied |
| **12. Dimensions (W×H×D)** | 28mm × 8.5mm × 37.7mm |

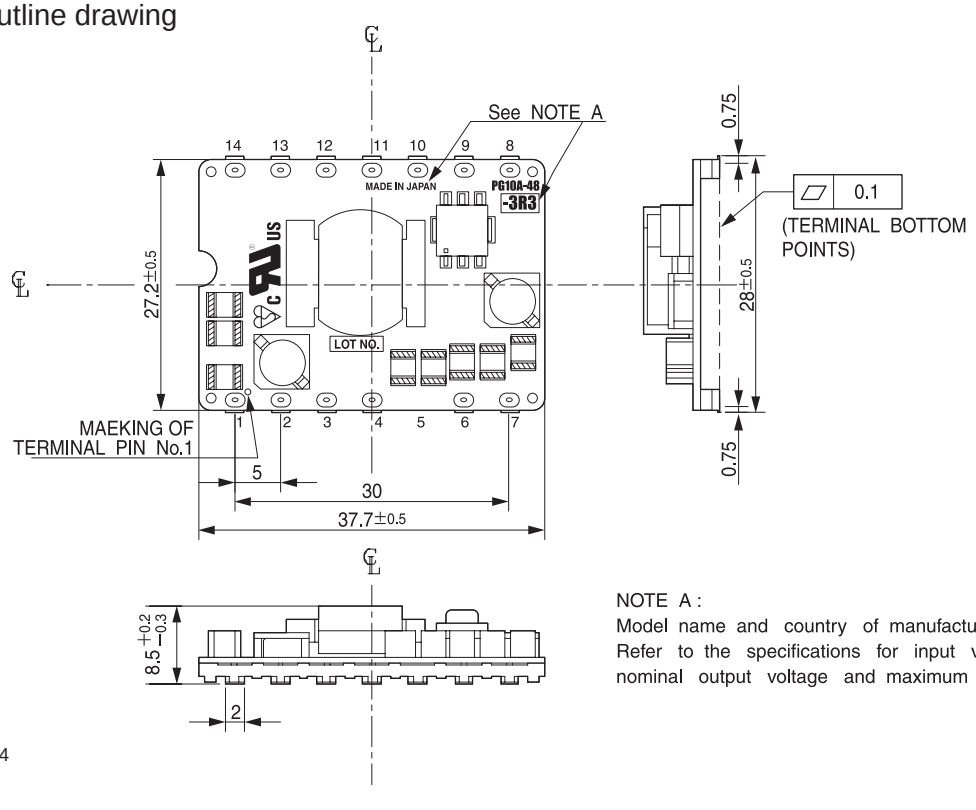
- Request customer specification for further details of specifications, outline, characteristics, etc. Read the instruction manual before usage.
- Contact us about delivery before ordering.

## ■ Product lineup

| Model name | Output voltage | Output current | Output power | UL | CSA | EN |
|---|---|---|---|---|---|---|
| PG10A-48-1R2 | 1.2V | 3.5A | 4.20W | ○ | ○ | ○ |
| PG10A-48-1R5 | 1.5V | 3.5A | 5.25W | ○ | ○ | ○ |
| PG10A-48-1R8 | 1.8V | 3.0A | 5.40W | ○ | ○ | ○ |
| PG10A-48-2R5 | 2.5V | 3.0A | 7.50W | ○ | ○ | ○ |
| PG10A-48-3R3 | 3.3V | 3.0A | 9.90W | ○ | ○ | ○ |
| PG10A-48-5 | 5.0V | 2.0A | 10.0W | ○ | ○ | ○ |

○ : Safety standard approved

## ■ Outline drawing




| TM No. | TM Name. |
|---|---|
| 1 | -Vin |
| 2 | +Vin |
| 3 | NC |
| 4 | CNT |
| 5 | - |
| 6 | -Vout |
| 7 | +Vout |
| 8 | TRM |
| 9 | ALM |
| 10 | PCout |
| 11 | PCin |
| 12 | Sin |
| 13 | Sout |
| 14 | NC |

NOTE A :
Model name and country of manufacture will be shown on the PCB. Refer to the specifications for input voltage, nominal output voltage and maximum output current.

(Unit: mm)

On-Board Type Power Supply