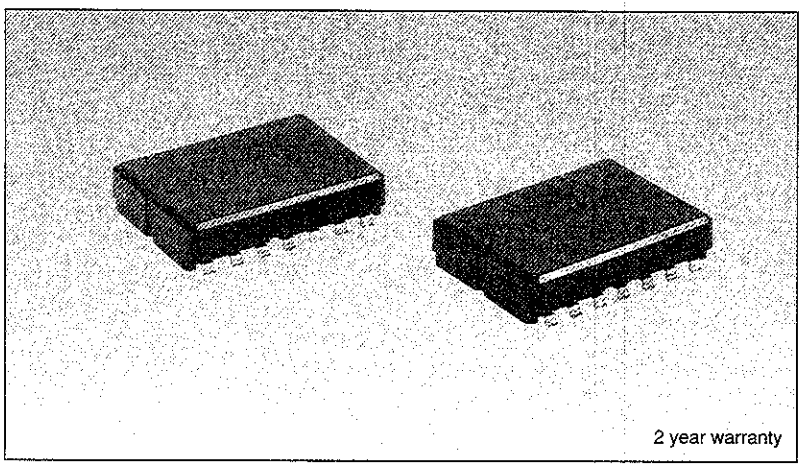
PG10-SERIES

SMD type Single output DC-DC converter

LAMBDA
DENSEI-LAMBDA



2 year warranty

Model name

PG 10-48-5

- PG: Series Name
- 10: Output Wattage
- 48: Rated Input Voltage
- 5: Rated Output Voltage

Features

- SMD design (10W type) with the world-class highest efficiency Efficiency 88% was achieved (5V output type) by applying synchronous rectifier circuit.
- 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	UL60950, CSA950 c$\mathbb{R}$us, EN60950 (proposed), CE marking applied
12. Dimensions (W×H×D)	28mm × 8.7mm × 37.7mm

On-Board Type Power Supply

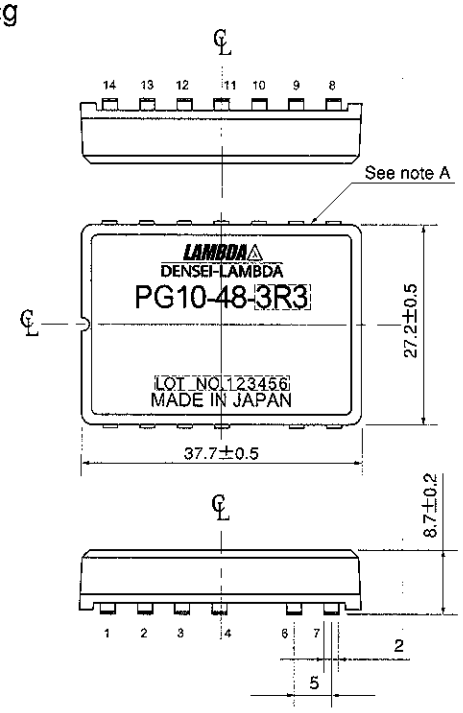
Product lineup

Model name		Output voltage	Output current	Output power	UL	CSA	EN
PG10-48	PG10-48-1R2	1.2V	3.5A	4.20W	○	○	○
	PG10-48-1R5	1.5V	3.5A	5.25W	○	○	○
	PG10-48-1R8	1.8V	3.0A	5.40W	○	○	○
	PG10-48-2R5	2.5V	3.0A	7.50W	○	○	○
	PG10-48-3R3	3.3V	3.0A	9.90W	○	○	○
	PG10-48-5	5.0V	2.0A	10.0W	○	○	○

○ : Safety standard approved

Outline drawing

(Unit: mm)



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

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