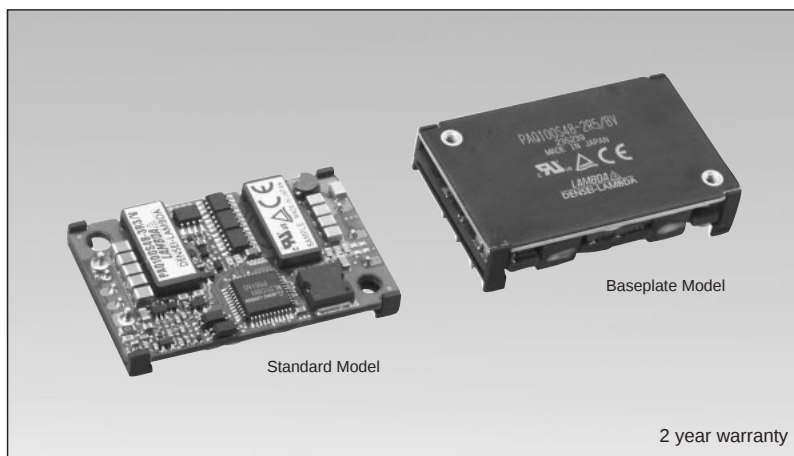




## Model name

**PAQ 50S 48-5/**

Series Name

Output  
Wattage

Rated output  
voltage

Rated input  
voltage

Option

Function  
S: Simple function

blank: Protection functions (OVP, OCP) manual reset  
V : Protection functions (OVP, OCP) auto-recovery  
< Modified models >  
\*Order for the following is acceptable upon request.  
P : Positive logic ON/OFF control  
B : with baseplate (H=12.7mm)

## Features

- Quarter-brick-sized profile: Efficiency 90% was achieved (5V output type) by applying Densel-Lambda's own technology in control IC and synchronous rectifier circuit.
- Compact and high power density: Height 8.5mm.
- Power density 5.5W/cc (PAQ100S48-5).
- Low output voltage model selectable: 1.2V - 5V (5 types).
- No heatsink required: Forced air cooled operation.
- Options: Protection functions auto-recovery.
- Patent and design registration pending.
- 2 year warranty.

## Specifications

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| 1. Input voltage range           | DC48V (DC36 ~ 76V)                                                                         |
| 2. Output voltage adj range      | 1.2V / 1.8V / 2.5V types: -20 ~ +10%      3.3V / 5V types: -15 ~ +15%                      |
| 3. Efficiency (Typ.)             | PAQ50S48      1.2V : 78% / 1.8V : 83% / 2.5V : 85% / 3.3V : 88% / 5V : 90%                 |
|                                  | PAQ100S48      1.2V : 80% / 1.8V : 84% / 2.5V : 86% / 3.3V : 89% / 5V : 90%                |
| 4. Cooling Method                | Forced air Cooling                                                                         |
| 5. Operating ambient temperature | -40 ~ +85 deg. C (output derating required depending on the temperature condition)         |
| 6. Withstand voltage             | Input-output isolation type: DC1.5kV, 1 min., between input and output                     |
| 7. Standard functions            | On/Off control, overcurrent protection, overvoltage protection, overtemperature protection |
| 8. Options                       | /V: Overvoltage protection auto-recovery, overcurrent protection auto-recovery             |
| 9. Safety standard               | Approved by UL60950, CSA60950  and EN60950  marking applied                                |
| 10. Dimensions (W×H×D)           | 36.8mm × 8.5mm × 57.9mm (lead pin length excluded)                                         |

- 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 |
|------------|----------------|----------------|--------------|--------|-----|----|
| PAQ50S48   | PAQ50S48-1R2   | 1.2V           | 12A          | 14.4W  | ○   | ○  |
|            | PAQ50S48-1R8   | 1.8V           | 12A          | 21.6W  | ○   | ○  |
|            | PAQ50S48-2R5   | 2.5V           | 12A          | 30.0W  | ○   | ○  |
|            | PAQ50S48-3R3   | 3.3V           | 12A          | 39.6W  | ○   | ○  |
|            | PAQ50S48-5     | 5.0V           | 10A          | 50.0W  | ○   | ○  |
| PAQ100S48  | PAQ100S48-1R2  | 1.2V           | 25A          | 30.0W  | ○   | ○  |
|            | PAQ100S48-1R8  | 1.8V           | 25A          | 45.0W  | ○   | ○  |
|            | PAQ100S48-2R5  | 2.5V           | 25A          | 62.5W  | ○   | ○  |
|            | PAQ100S48-3R3  | 3.3V           | 25A          | 82.5W  | ○   | ○  |
|            | PAQ100S48-5    | 5.0V           | 20A          | 100.0W | ○   | ○  |

○ : Safety standard approved

## Outline drawing

- STD Model

