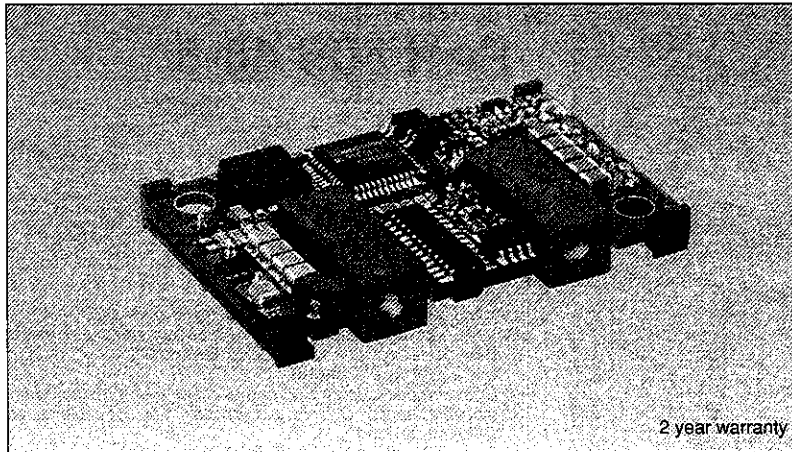


PAQ-SERIES

Single output DC-DC power module for TELECOM

LAMBDA
DENSEI-LAMBDA



2 year warranty

Model name PAQ 50S 48-5/

Series Name Output Wattage Rated input voltage Rated output 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

- World-class ranking No.1 high efficiency with
- Quarter-brick-sized profile: Efficiency 90% was achieved.
- (5V output type) by applying Densai-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 (DC36A~76V)
2. Max. output wattage	PAQ 50S48: 50W PAQ100S48: 100W
3. Rated output voltage	5 types :1.2V / 1.8V / 2.5V / 3.3V / 5V
4. Output voltage adj range	1.2V / 1.8V / 2.5V types: -20~ +10% 3.3V / 5V types: -15 ~ +15%
5. 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%
6. Cooling Method	Forced air Cooling
7. Operating ambient temperature	-40 ~ +85 deg. C (output derating required depending on the temperature condition)
8. Withstand voltage	Input-output isolation type: DC1.5kV, 1 min., between input and output
9. Standard functions	On/Off control, overcurrent protection, overvoltage protection, overtemperature protection
10. Options	/V: Overvoltage protection auto-recovery, overcurrent protection auto-recovery
11. Safety standard	UL1950, CSA950, EN60950 (proposed), CE marking applied
12. Dimensions (W × H × D)	36.8mm × 8.5mm × 57.9mm (lead pin length excluded)

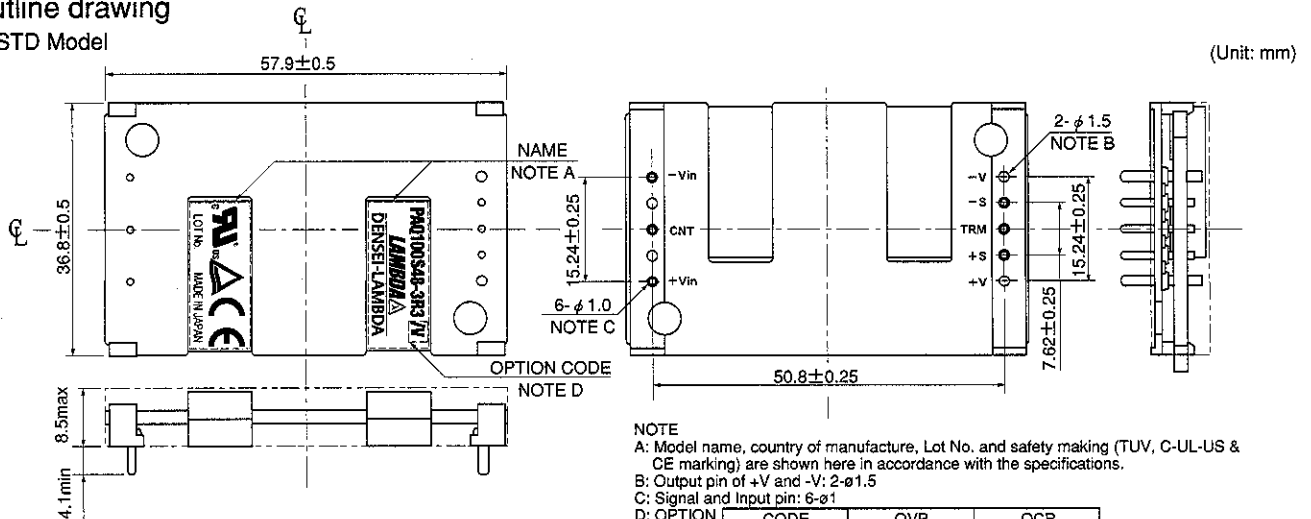
Product lineup

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	30W	○	○	○
	PAQ100S48-1R8	1.8V	25A	45W	○	○	○
	PAQ100S48-2R5	2.5V	25A	62.5W	○	○	○
	PAQ100S48-3R3	3.3V	25A	82.5W	○	○	○
	PAQ100S48-5	5.0V	20A	100W	○	○	○

○ : Safety standard approved

Outline drawing

● STD Model



NOTE

- A: Model name, country of manufacture, Lot No. and safety marking (TUV, C-UL-US & CE marking) are shown here in accordance with the specifications.
B: Output pin of +V and -V: 2-φ1.5
C: Signal and Input pin: 6-φ1
D: OPTION

CODE	OVP	OCP
NOTHING (STANDARD)	SHUT DOWN (ON/OFF CONT. RESET OR MANUAL RESET)	SHUT DOWN (ON/OFF CONT. RESET OR MANUAL RESET)
V	AUTO RESTART	AUTO RESTART