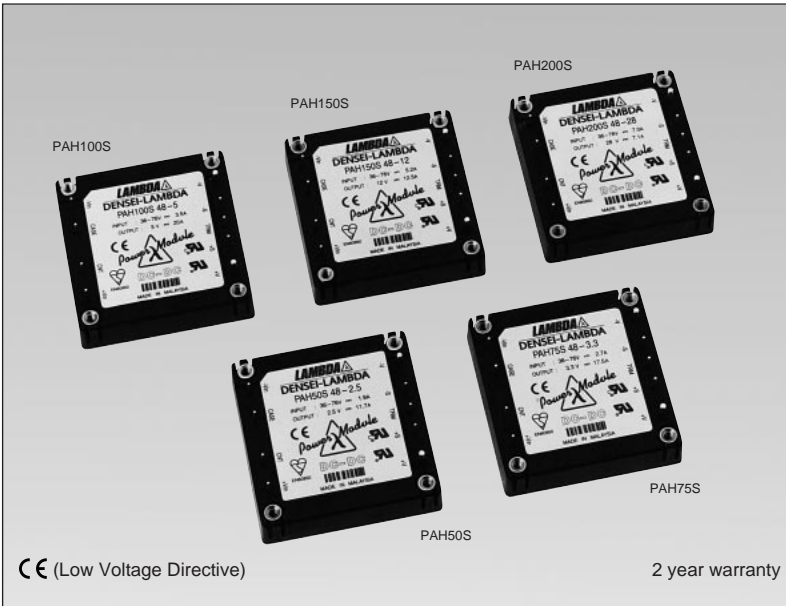


# PAH-SERIES

Single output 50W ~ 200W  
DC-DC power module



## Model name

**PAH 50S 48-5/**

Series Name: PAH  
Output Wattage: 50  
Function: S: Simple function  
Rated input voltage: 48  
Rated output voltage: 5  
Option:  
blank: On/Off control minus logic  
OVP manual reset  
P: On/Off control plus logic  
OVP manual reset  
V: On/Off control minus logic  
OVP auto-recovery  
PV: On/Off control plus logic  
OVP auto-recovery

## Features

- Half-brick DC-DC Power Module
- Standardized pin disposition and size for "Half-Brick" DC-DC Converter applied in European and American telecom industries
  - 1) High power density: 4.46W/cc3 (73W/inch3) with 200W type achieved
  - 2) Common package size among all models enables common mounting board. Current capacity selection available suited to the actual load
  - 3) Enriched lineup, all kinds of function selectable; 128 models in 5 types
- Wide input voltage range: DC36~76V, non-load operation available
- Wide operation temperature range
  - 1) Base plate temperature range: -40~+100°C
  - 2) Conduction cooling system available for adjusting radiating method conforming to the shape of the devices
- 2 year warranty

Power Module

## Specifications

1. Input voltage range	36 ~ 76VDC
2. Output voltage range	PAH50S ~ 150S Output: 2.5V, 3.3V = ±10% Output: 5V = -40% ~ +15% Output: 12V, 15V, 24V, 28V = -40% ~ +10% PAH200S Output: 2.5V, 3.3V = ±10% Output: 5V = -40% ~ +15% Output: 12V, 15V, 24V, 28V = -40% ~ +10%
3. Parallel operation	-
4. Line regulation	Output: 2.5V, 3.3V = 10mV Output: 5V ~ 28V = 0.2%, 48V=56mV *within nominal input voltage range at constant load *For -40% ~ -20°C operation, the regulation for output 2.5V, 3.3V, 5V, 12V, 15V of PAH50,75 is 40mV
5. Load regulation	Output: 2.5V, 3.3V = 10mV Output: 5V ~ 28V = 0.2%, 48V=56mV *No load to full load at constant input voltage *For -40% ~ -20°C operation, the regulation for output 2.5V, 3.3V, 5V, 12V, 15V of PAH50,75 is 40mV
6. Cooling	Conduction cooling
7. Operating ambient temperature	-40°C ~ +100°C (Baseplate) Ambient temperature min=-40°C Output Derating : -40 ~ +100°C (Baseplate) 100% (PAH200S -40 ~ +80°C: 100%, 100°C: 90%)
8. Withstand voltage	Input-output : 1.5kVAC (20mA) , Input-chassis : 1.5kVAC (20mA) , Output-chassis : 500VDC for 1 min
9. Safety standard	Approved by UL1950  , CSA950(C-UL)  and EN60950(BSI)
10. CE marking	Conforms to low voltage directive
11. Functions	Over voltage protection, Over current protection, Remote on/off control

## Product lineup

Model name	Output voltage	Output current	Output power	UL	CSA	EN
PAH50S48 (input 48VDC)	PAH50S48-2.5	2.5V	11.7A	29.25W	○	○
	PAH50S48-3.3	3.3V	11.7A	38.61W	○	○
	PAH50S48-5	5V	10.0A	50.0W	○	○
	PAH50S48-12	12V	4.2A	50.4W	○	○
	PAH50S48-15	15V	3.4A	51.0W	○	○
	PAH50S48-24	24V	2.1A	50.4W	○	○
	PAH50S48-28	28V	1.8A	50.4W	○	○
PAH75S48 (input 48VDC)	PAH75S48-2.5	2.5V	17.5A	43.75W	○	○
	PAH75S48-3.3	3.3V	17.5A	57.75W	○	○
	PAH75S48-5	5V	15.0A	75.0W	○	○
	PAH75S48-12	12V	6.3A	75.6W	○	○
	PAH75S48-15	15V	5.0A	75.0W	○	○
	PAH75S48-24	24V	3.2A	76.8W	○	○
PAH100S48 (input 48VDC)	PAH100S48-2.5	2.5V	23.4A	58.5W	○	○
	PAH100S48-3.3	3.3V	23.4A	77.22W	○	○
	PAH100S48-5	5V	20.0A	100.0W	○	○
	PAH100S48-12	12V	8.4A	100.8W	○	○
	PAH100S48-15	15V	6.7A	100.5W	○	○
	PAH100S48-28	28V	3.6A	100.8W	○	○

Model name	Output voltage	Output current	Output power	UL	CSA	EN
PAH150S48 (input 48VDC)	PAH150S48-2.5	2.5V	35.0A	87.5W	○	○
	PAH150S48-3.3	3.3V	35.0A	115.5W	○	○
	PAH150S48-5	5V	30.0A	150.0W	○	○
	PAH150S48-12	12V	12.5A	150.0W	○	○
	PAH150S48-15	15V	10.0A	150.0W	○	○
	PAH150S48-24	24V	6.3A	151.2W	○	○
	PAH150S48-28	28V	5.4A	151.2W	○	○
	PAH150S48-48	48V	3.2A	153.6W	○	○
PAH200S48 (input 48VDC)	PAH200S48-12	12V	16.7A	200.4W	○	○
	PAH200S48-15	15V	13.4A	201.0W	○	○
	PAH200S48-24	24V	8.4A	201.6W	○	○
	PAH200S48-28	28V	7.2A	201.6W	○	○

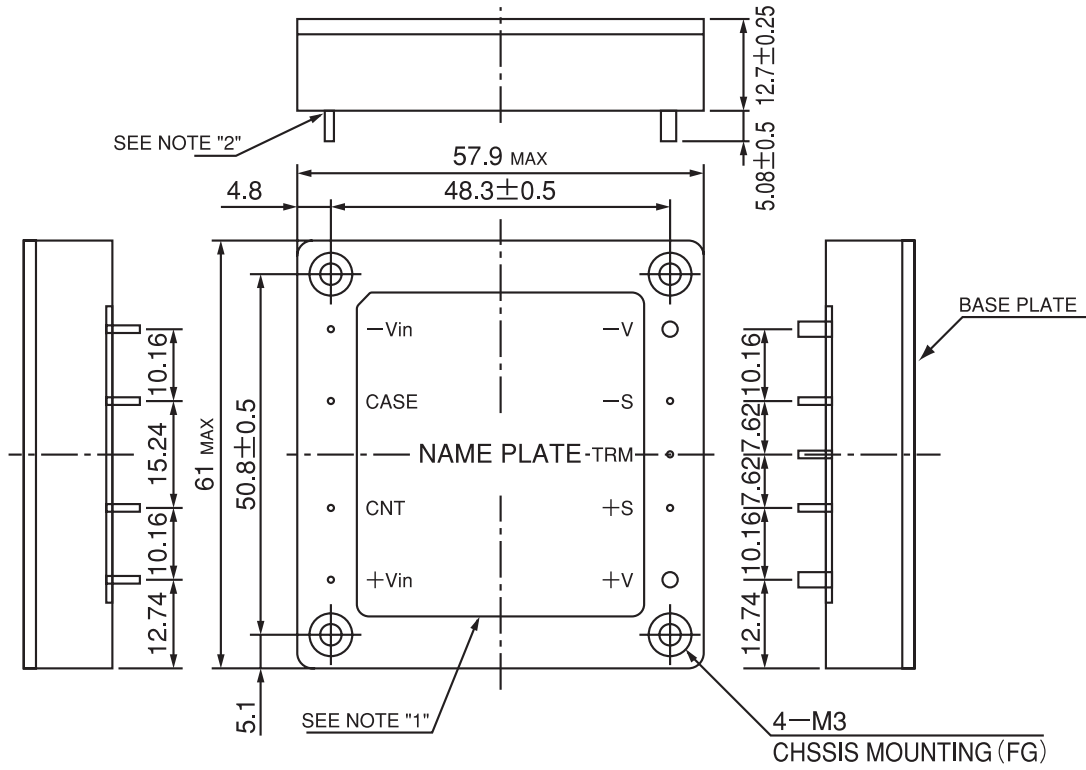
○ : Safety standard approved

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

● Recommended Heatsink P213

# PAH-SERIES

■ PAH50S, PAH75S, PAH100S, PAH150S, PAH200S



Note 1: \*Model name, Input voltage range, Nominal output voltage, Maximum output current and country of manufacture are shown here.  
Note 2: Input & output terminal.....2-ø2  
7-ø1

(Unit: mm)

Power Module