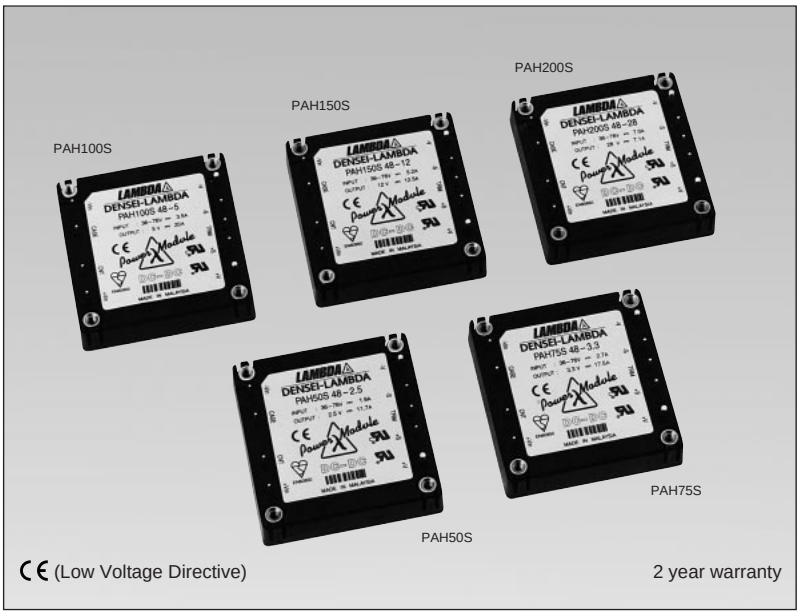
PAH-SERIES

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

LAMBDA
DENSEI-LAMBDA



CE (Low Voltage Directive)

2 year warranty

Model name

PAH 50S 48-5/ □

- PAH: Series Name
- 50S: Output Wattage
- Function: S: Simple function
- 48: Rated input voltage
- 5: Rated output voltage
- 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

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 -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	○	○	○
	PAH75S48-28	28V	2.7A	75.6W	○	○	○
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	○	○	○
	PAH100S48-24	24V	4.2A	100.8W	○	○	○
	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	○	○	○

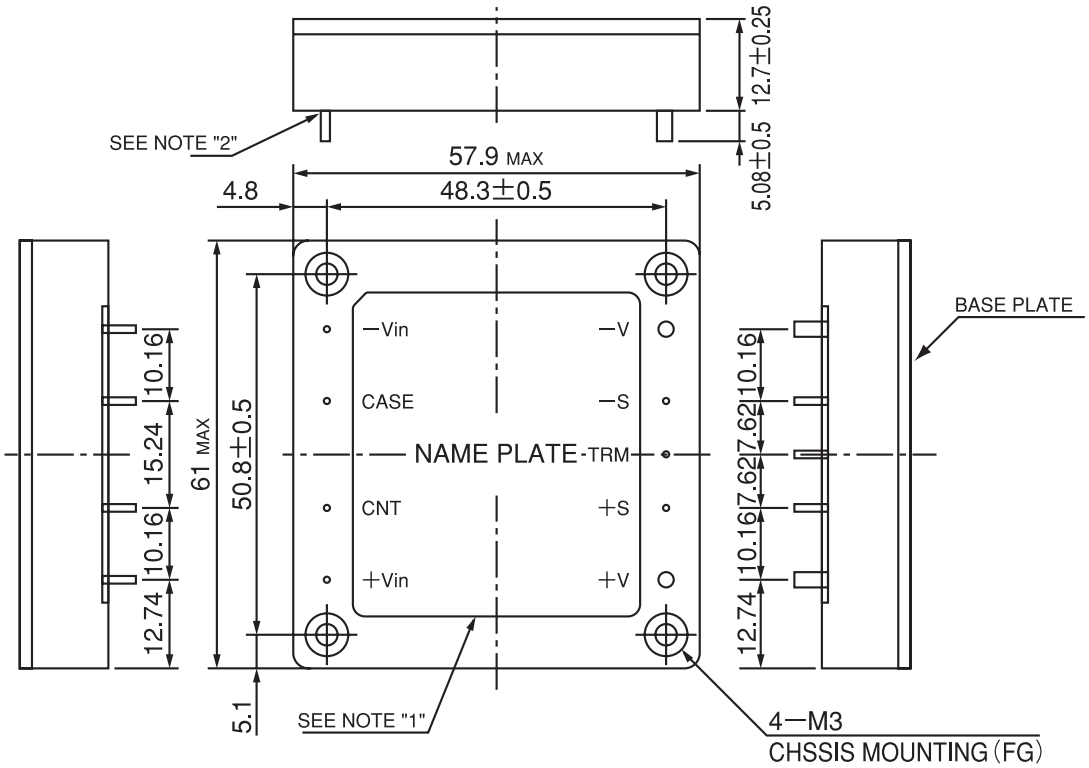
○ : Safety standard approved

- 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 GO!! P213

Power Module

■ 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)