

# PT-SERIES

## DC-DC transformer module 500W

**LAMBDA**   
**DENSEI-LAMBDA**



CE (Low Voltage Directive)

Multigrades : 2 year warranty

### ■ Model name

# PT 500-48

Name of series	Output power	Output voltage
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## ■ Features

- **CE** marking (Low Voltage Directive)
- DC-DC transformer module
  - Converts DC360V ~ DC48V or DC66V by connecting with PFHC module "PF-A series".
- Application:
  - Battery backup system
  - N + 1 redundant system
- Wide baseplate temperature: -20 ~ +85°C
  - Conduction cooling
- 2 year warranty

## ■ Specifications

<b>1. Input voltage range</b>	360VDC ± 2% (Connected to output of PFHC module "PF-A series")
<b>2. Nominal output voltage</b>	PT500-48: DC48V, PT500-66: DC66V
<b>3. Output voltage range</b>	Fixed/PT500-48: DC43 ~ 53V, PT500-66: DC61 ~ 71V
<b>4. Max. output current/power</b>	PT500-48: 11A 500W, PT500-66: 8A 500W
<b>5. Efficiency (typ)</b>	93% at full load
<b>6. Load regulation</b>	10V no load to full load
<b>7. Parallel operation</b>	N+1 redundant operation. Output current balancing
<b>8. Cooling</b>	Conduction cooling (Heatsink & airflow has to be chosen according to instruction manual)
<b>9. Operating ambient temperature</b>	Baseplate temperature: -20 ~ +85°C (output derating is different according to condition) Ambient temperature: above -20°C
<b>10. Withstand voltage</b>	Input to output: 3.0kVAC, Input to baseplate: 2.5kVAC for 1 min.
<b>11. Safety standard</b>	Approved by UL1950  , CSA950(C-UL)  and EN60950(BSI) 
<b>12. Functions</b>	Over voltage protection, Over current protection, Thermal protection, ON/OFF control (CNT terminal), Inverter good signal (IOG terminal)

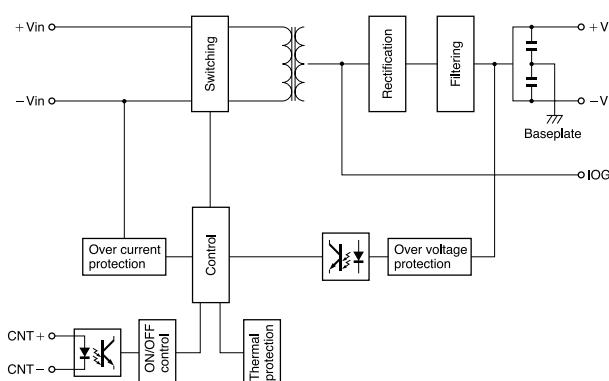
## ■ Product lineup

Model	Nominal output voltage	Output voltage range (no load - full load)	Nominal input voltage range	Max. output current	Max. output power	UL	CSA	EN
PT500-48	48VDC	43 ~ 53VDC	360VDC ± 2% Use PFHC module "PF500A-360 or PF1000A-360" together.	11A	500W	○	○	○
PT500-66	66VDC	61 ~ 71VDC		8A	500W	○	○	○

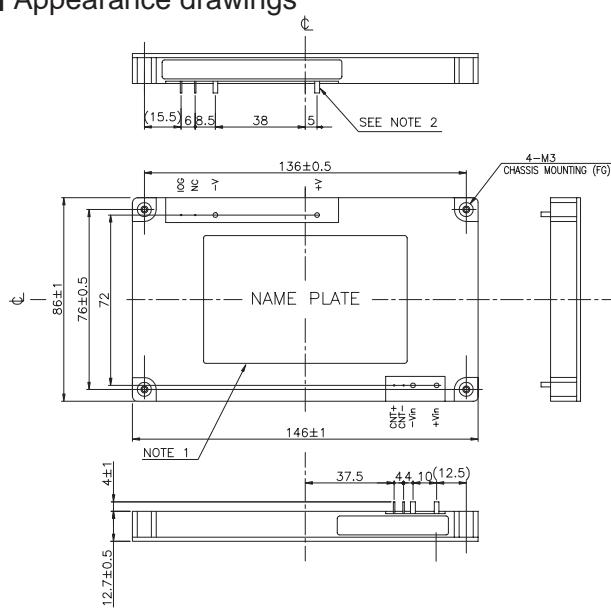
Note:  
The above specified value is on condition with external components attached. Filtering capacitor and external fuse at input line are required as external components.

○ : Safety standard approved

## ■ Block diagram



## ■ Appearance drawings



Note:

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

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

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4-ø2  
2-ø0.6