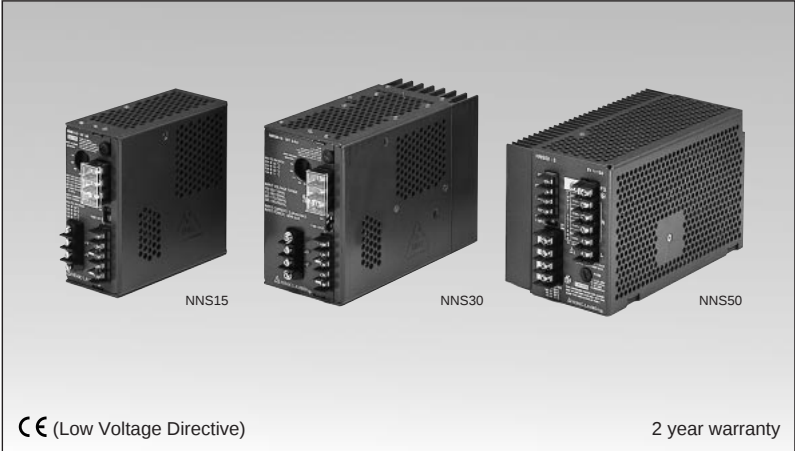


# NNS-SERIES

Linear power supply single output 15W ~ 50W

Unit Type Power Supply



Model name  
**NNS 15-5**

Output voltage: 5VDC, 12VDC, 15VDC, 24VDC  
Name of series    Output power: 15W, 30W, 50W

- Features
- CE marking (Low Voltage Directive)
  - Compact linear power supply  
Low ripple & noise: 1mV (rms), 3mV (pk-pk)
  - Low leakage current: 50μA
  - Wide operating temperature range: -20 ~ +71°C
  - Input voltage range  
100/115/200/230VAC
  - Output current balancing in running in parallel
  - 2 year warranty

■ Specifications

|                                                      |                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Input voltage range                               | 100VAC: 85 ~ 115VAC 115VAC: 98 ~ 132VAC<br>200VAC: 170 ~ 230VAC 230VAC: 195 ~ 265VAC input selectable                                                                                                                                                                                                     |
| 2. Output voltage range                              | ±10%                                                                                                                                                                                                                                                                                                      |
| 3. Line regulation                                   | Line regulation: 0.01% (Within input voltage range at constant load)                                                                                                                                                                                                                                      |
| 4. Load regulation                                   | Load regulation: 0.03% (No load to full load at constant input voltage)                                                                                                                                                                                                                                   |
| 5. Maximum ripple & noise                            | 1mV (rms) 3mV (pk-pk)                                                                                                                                                                                                                                                                                     |
| 6. Cooling                                           | Convection Cooling                                                                                                                                                                                                                                                                                        |
| 7. Operating ambient temperature (Standard mounting) | -20 ~ +71°C<br>-20°C: 60%, 0 ~ +50°C: 100%, +60°C: 60%, +71°C: 40%                                                                                                                                                                                                                                        |
| 8. Withstand voltage                                 | Input-output: 3.75kVAC, Input-FG: 2.5kVAC                                                                                                                                                                                                                                                                 |
| 9. Safety standard                                   | Approved by UL1950  , CSA950(C-UL)  and EN60950  |
| 10. EMI                                              | Conforms to VCCI-class A, FCC class B and VDE0871 class B                                                                                                                                                                                                                                                 |
| 11. Functions                                        | Over voltage protection, Over current protection, Remote sensing, Output current balancing<br>NNS50: Remote on/off control                                                                                                                                                                                |

■ Product lineup

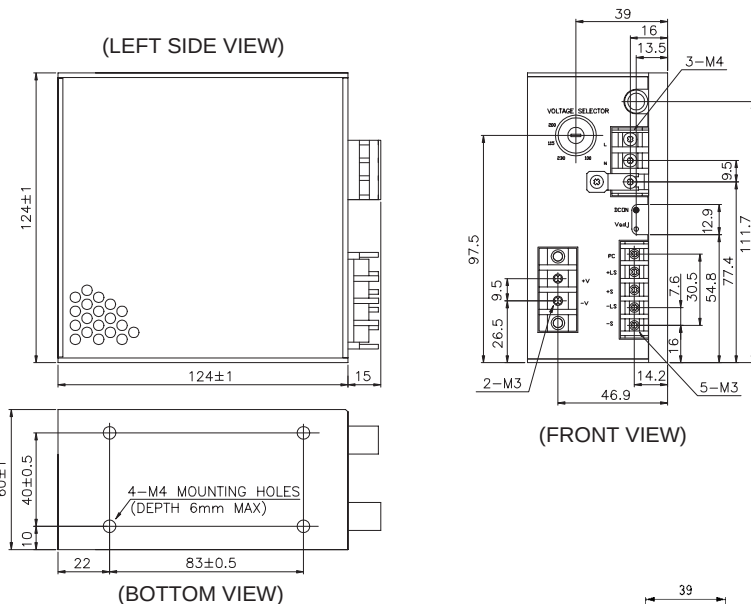
| Model name |          | Nominal output voltage | Max. output current | Max. output power | UL | CSA | EN |
|------------|----------|------------------------|---------------------|-------------------|----|-----|----|
| NNS15      | NNS15-5  | 5V                     | 3A                  | 15W               | ○  | ○   | ○  |
|            | NNS15-12 | 12V                    | 1.7A                | 20.4W             | ○  | ○   | ○  |
|            | NNS15-15 | 15V                    | 1.4A                | 21W               | ○  | ○   | ○  |
|            | NNS15-24 | 24V                    | 0.9A                | 21.6W             | ○  | ○   | ○  |
| NNS30      | NNS30-5  | 5V                     | 6A                  | 30W               | ○  | ○   | ○  |
|            | NNS30-12 | 12V                    | 4A                  | 48W               | ○  | ○   | ○  |
|            | NNS30-15 | 15V                    | 3.4A                | 51W               | ○  | ○   | ○  |
|            | NNS30-24 | 24V                    | 2.3A                | 55.2W             | ○  | ○   | ○  |
| NNS50      | NNS50-5  | 5V                     | 10A                 | 50W               | ○  | ○   | ○  |
|            | NNS50-12 | 12V                    | 6.5A                | 78W               | ○  | ○   | ○  |
|            | NNS50-15 | 15V                    | 5.5A                | 82.5W             | ○  | ○   | ○  |
|            | NNS50-24 | 24V                    | 3.8A                | 91.2W             | ○  | ○   | ○  |

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

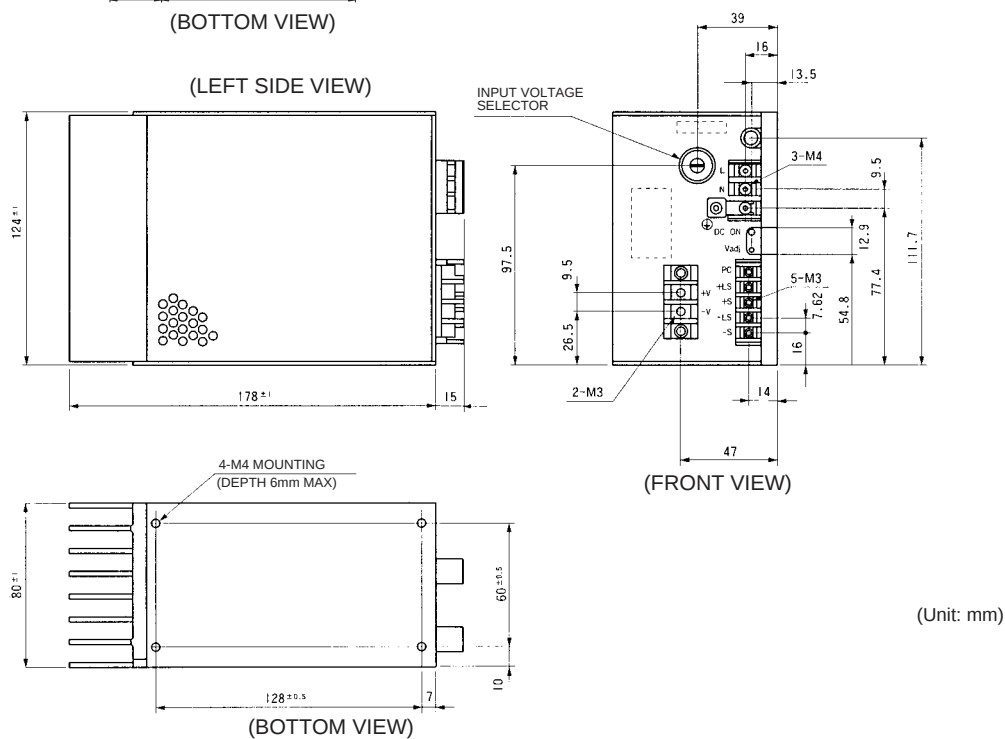
○ : Safety standard approved

# NNS-SERIES

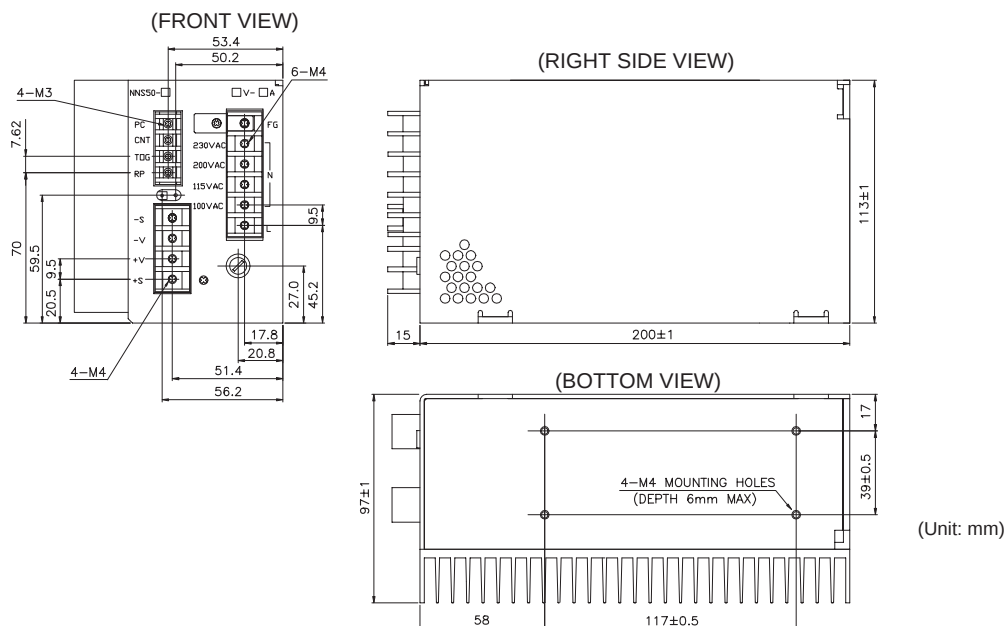
## ■ NNS15



## ■ NNS30



## ■ NNS50



# NND-SERIES

Linear power supply dual output 15W ~ 30W

**LAMBDA**  
DENSEI-LAMBDA

Unit Type Power Supply



Model name

**NND 15-1212**

Name of series      Output power: 15W, 30W      Combination of output voltages      1212:  $\pm 12\text{VDC}$   
1515:  $\pm 15\text{VDC}$

Features

- $\text{CE}$  marking (Low Voltage Directive)
- Compact linear power supply
- Low ripple & noise: 1mV (rms), 3mV (pk-pk)
- Low leakage current: 50 $\mu\text{A}$
- Wide operating temperature range:  $-20 \sim +71^\circ\text{C}$
- Input voltage range  
100/115/200/230VAC
- 2 year warranty

## Specifications

|                                                      |                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Input voltage range                               | 100VAC: 85 ~ 115VAC    115VAC: 98 ~ 132VAC<br>200VAC: 170 ~ 230VAC    230VAC: 195 ~ 265VAC selectable                                                                                                                                                                                               |
| 2. Output voltage range                              | $\pm 10\%$ (for each output)                                                                                                                                                                                                                                                                        |
| 3. Line regulation                                   | Line regulation: 0.01% (Within input voltage range at constant load)                                                                                                                                                                                                                                |
| 4. Load regulation                                   | Load regulation: 0.03% (No load to full load at constant input voltage)                                                                                                                                                                                                                             |
| 5. Maximum ripple & noise                            | 1mV (rms)    3mV (pk-pk)                                                                                                                                                                                                                                                                            |
| 6. Cooling                                           | Convection cooling                                                                                                                                                                                                                                                                                  |
| 7. Operating ambient temperature (Standard mounting) | $-20 \sim +71^\circ\text{C}$<br>$-20^\circ\text{C}$ : 60%, $0 \sim +50^\circ\text{C}$ : 100%, $+60^\circ\text{C}$ : 60%, $+71^\circ\text{C}$ : 40%                                                                                                                                                  |
| 8. Withstand voltage                                 | Input-output: 3.75kVAC, Input-FG: 2.5kVAC                                                                                                                                                                                                                                                           |
| 9. Safety standard                                   | Approved by UL1950  , CSA950  and EN60950  |
| 10. EMI                                              | Conforms to VCCI-class A, FCC class B and VDE class B                                                                                                                                                                                                                                               |
| 11. Functions                                        | Over voltage protection, Over current protection                                                                                                                                                                                                                                                    |

## Product lineup

| Model name | CH         | Nominal output voltage | Max. output current | Max. output power | UL    | CSA                                                                                   | EN                                                                                    |
|------------|------------|------------------------|---------------------|-------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| NND15      | NND15-1212 | CH1                    | +12V                | 0.75A             | 18W   |  |  |
|            |            | CH2                    | -12V                | 0.75A             |       |                                                                                       |                                                                                       |
|            | NND15-1515 | CH1                    | +15V                | 0.6A              | 18W   |  |  |
|            |            | CH2                    | -15V                | 0.6A              |       |                                                                                       |                                                                                       |
| NND30      | NND30-1212 | CH1                    | +12V                | 1.6A              | 38.4W |  |  |
|            |            | CH2                    | -12V                | 1.6A              |       |                                                                                       |                                                                                       |
|            | NND30-1515 | CH1                    | +15V                | 1.3A              | 39W   |  |  |
|            |            | CH2                    | -15V                | 1.3A              |       |                                                                                       |                                                                                       |

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

 : Safety standard approved

