

1.5-6

WATTS

DC/DC CONVERTER

SINGLE - DUAL OUTPUT

- Input - Output isolation**
- 5 side shielded metal case**
- Over current protection**
- Adjustable Output Voltage**
- Remote ON/OFF control (6W type)**

INPUT

| | |
|----------------------|--|
| Input voltage range: | 4.5-9VDC (5V nominal) 9-18VDC (12V nominal) 18-36VDC (24V nominal) 36-72VDC (48V nominal) |
|----------------------|--|

OUTPUT

| | |
|---|--|
| Output power: | 1.5 to 6W |
| Adjustable output: | by external trimmer |
| Max Line regulation: | 0.4% (5V output model) |
| Ripple and noise (value peak to peak): | 120mV |
| Over current protection: | Output current limiting with automatic recovery. Avoid operation longer than 30 sec with overload. |
| Over voltage protection | No |

GENERAL

| | |
|--------------------|--|
| Efficiency: | 82% typical (PC6-48-5) |
| Remote on-off: | available on 6W models |
| Withstand voltage: | Input - Output: 500VAC (1 minute) Input - Chassis: 500VAC (1 minute) Input - Chassis: 500VDC |
| Series operation: | Possible |

ENVIRONMENTAL

| | |
|------------------------|--|
| Isolation temperature: | -20 to +70°C |
| Derating: | Linear from 50°C to 70°C (40%) |
| Storage temperature: | -40 to +85°C |
| Shock: | 100G |
| Vibration | Non-operational, 10 ~ 55 ~ 10Hz (sweep for 15 min.) amplitude 1.5mm constant (maximum 9G X, Y, Z 2 hours each) |

TABLE OF MODELS

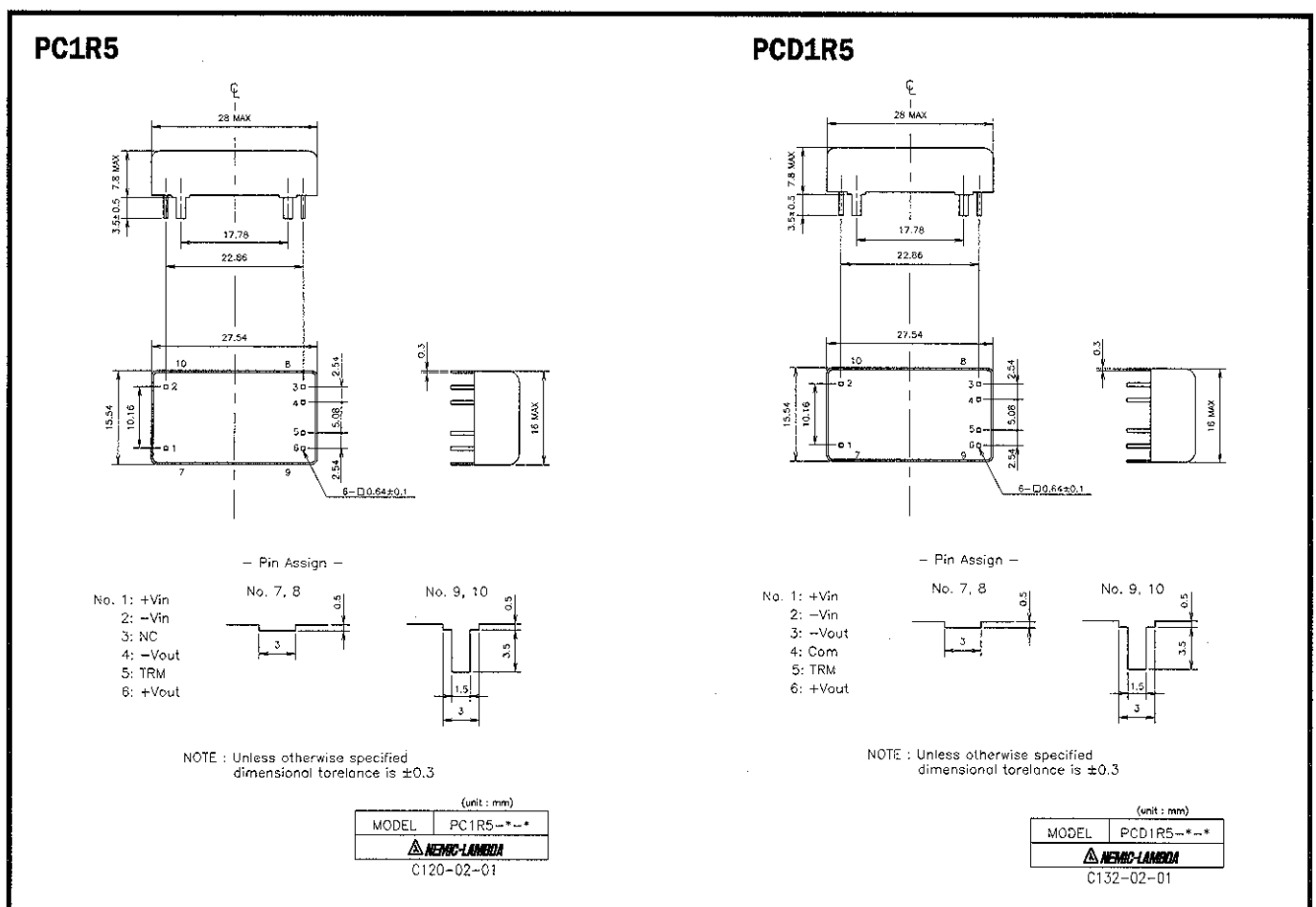
SINGLE OUTPUT

| Volts | Max. Output Current (mA) | Max. Output power (W) | Model - 5V INPUT | Model - 12V INPUT | Model - 24V INPUT | Model - 48V INPUT |
|-------|--------------------------|-----------------------|------------------|-------------------|-------------------|-------------------|
| 3.3 | 0-400 | 1.32 | PC1R5-5-3.3 | PC1R5-12-3.3 | PC1R5-24-3.3 | PC1R5-48-3.3 |
| 5 | 0-300 | 1.5 | PC1R5-5-5 | PC1R5-12-5 | PC1R5-24-5 | PC1R5-48-5 |
| 12 | 0-125 | 1.5 | PC1R5-5-12 | PC1R5-12-12 | PC1R5-24-12 | PC1R5-48-12 |
| 3.3 | 0-600 | 1.98 | PC3-5-3.3 | PC3-12-3.3 | PC3-24-3.3 | PC3-48-3.3 |
| 5 | 0-600 | 3 | PC3-5-5 | PC3-12-5 | PC3-24-5 | PC3-48-5 |
| 12 | 0-250 | 3 | PC3-5-12 | PC3-12-12 | PC3-24-12 | PC3-48-12 |
| 3.3 | 0-1200 | 3.96 | PC6-5-3.3 | PC6-12-3.3 | PC6-24-3.3 | PC6-48-3.3 |
| 5 | 0-1000 | 6 | PC6-5-5 | PC6-12-5 | PC6-24-5 | PC6-48-5 |
| 12 | 0-500 | 6 | PC6-5-12 | PC6-12-12 | PC6-24-12 | PC6-48-12 |

DUAL OUTPUT

| Output Voltage range | Max. Output Current (mA) | Max. Output power (W) | Model - 5V INPUT | Model - 12V INPUT | Model - 24V INPUT | Model - 48V INPUT |
|----------------------|--------------------------|-----------------------|------------------|-------------------|-------------------|-------------------|
| ±12 (~ ±15) | 0 ~ ±60 (±50) | 1.44 | PCD1R5-5-1212 | PCD1R5-12-1212 | PCD1R5-24-1212 | PCD1R5-48-1212 |
| ±12 (~ ±15) | 0 ~ ±125 (±100) | 3 | PCD3-5-1212 | PCD3-12-1212 | PCD3-24-1212 | PCD3-48-1212 |
| ±12 (~ ±15) | 0 ~ ±250 (±200) | 6 | PCD6-5-1212 | PCD6-12-1212 | PCD6-24-1212 | PCD6-48-1212 |

PHYSICAL SPECIFICATION

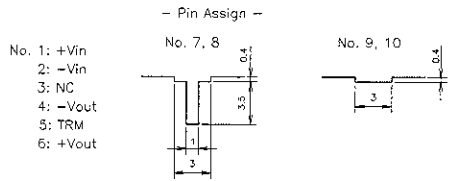
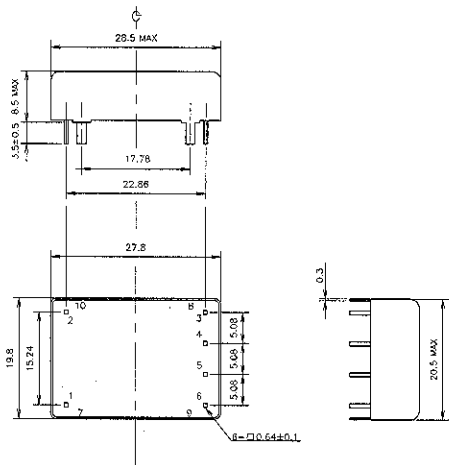


EDITION 2001

LAMBDA
An Invensys company

Series PC-PCD

PC3

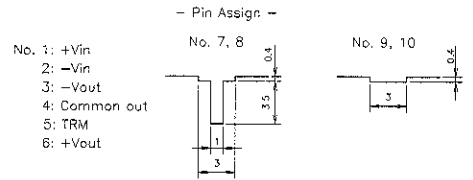
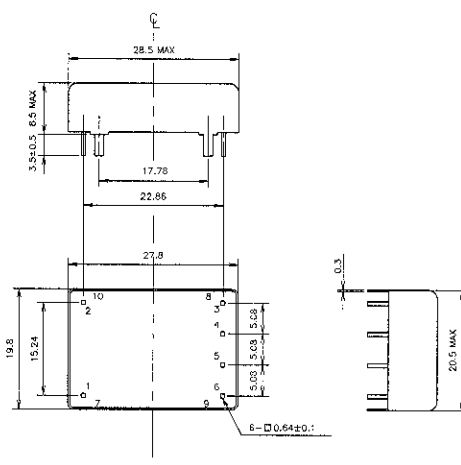


NOTE : Unless otherwise specified dimensional tolerance is ± 0.3

(unit : mm)

| | |
|---------------------|----------|
| MODEL | PC3-**-* |
| NEURO-LAMBDA | |
| C124-02-01 | |

PCD3

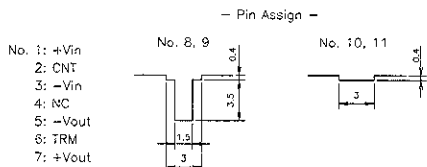
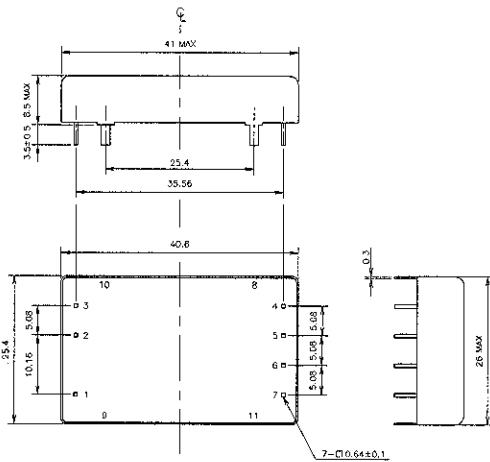


NOTE : Unless otherwise specified dimensional tolerance is ± 0.3

(unit : mm)

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|---------------------|-----------|
| MODEL | PCD3-**-* |
| NEURO-LAMBDA | |
| C136-02-01 | |

PC6

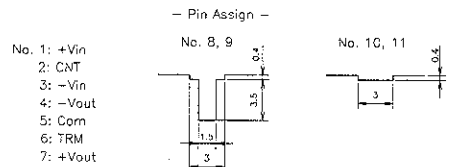
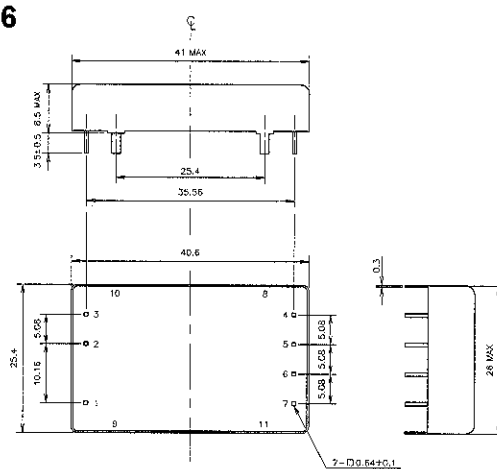


NOTE : Unless otherwise specified dimensional tolerance is ± 0.3

(unit : mm)

| | |
|---------------------|----------|
| MODEL | PC6-**-* |
| NEURO-LAMBDA | |
| C128-02-01 | |

PCD6



NOTE : Unless otherwise specified dimensional tolerance is ± 0.3

(unit : mm)

| | |
|---------------------|-----------|
| MODEL | PCD6-**-* |
| NEURO-LAMBDA | |
| C140-02-01 | |

Series PC-PCD

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