



Terminal Blocks for Special Treatment

Tropical Treatment (Use with DIN 35mm Rail)

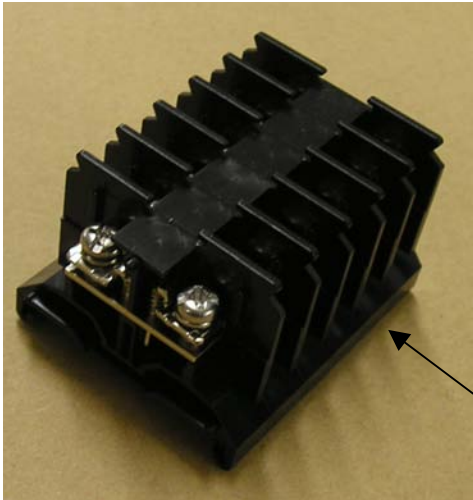
There may be need to use some products in the tropics or ship them through the tropics, where they can be stored in an environment of high temperature and high humidity, In such a case, the following products are available to withstand such tropical conditions. (Maximum humidity : 98%, no condensation.)

o Material

	PTU-N SPECS	PTU-NS SPECS
Body insulator	Modified PPO	Modified PPO
Conductive plate	Brass (nickel plated)	Brass (nickel plated)
Connection screw	Brass (nickel plated)	Stainless steel
Spring washer	Phosphor bronze(Ni plated)	Stainless steel
UP washer	Brass (nickel plated)	Brass (nickel plated)
Spring	Stainless steel	Stainless steel

- Standard service condition: Ambient temperature -25°C to 60°C
Relative humidity : 45 to 98%
- Temperature rise: 35 degrees or less at conductive plate
- Insulation resistance: $200\text{M}\Omega$ or more between live parts and between each live part and metal plate (Measured with DC 500V megger)
- Power-frequency withstand voltage: 2500V for 1 minutes
- Applicable standard: JIS C 2811

Tropical Treatment Terminal Blocks

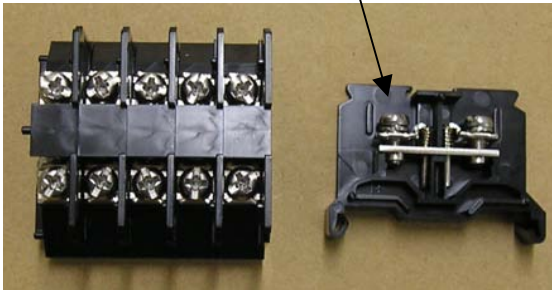


Material : Modified PPO

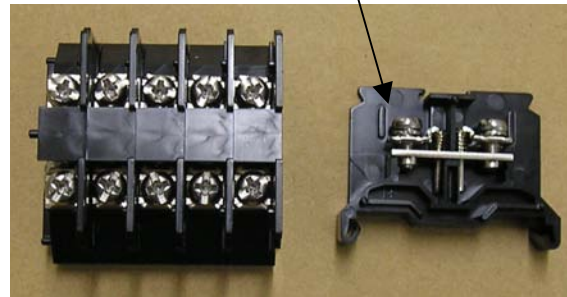
Connection screw and Up spring material

Brass (nickel plating)

Stainless steel



PTU-10N



PTU-10NS

Rating

Model	Rating
PTU-10N, PTU-10NS	AC/DC 600V 15A (1.25mm ²)
PTU-20N, PTU-20NS	AC/DC 600V 22A (2.0mm ²)
PTU-30N, PTU-30NS	AC/DC 600V 30A (3.5mm ²)
PTU-40N, PTU-40NS	AC/DC 600V 40A (5.5mm ²)
PTU-80N, PTU-80NS	AC/DC 600V 75A (14.0mm ²)

Oil and Chemical-resistant

(Use with DIN 35mm Rail)

Specification

This type employs a resin highly resistant to oils and chemicals for the insulation parts of the terminal block.

Material : Modified PPE/PA

Service condition : Ambient temperature -25°C to 55°C

Relative humidity 45% to 85%

1: Modified PPE/PA

The modified PPE/PA is an inflammable, non-reinforced type polymer alloy made from polyphenylene ether resin and nylon 60 resin. This has greatly improved oil resistance which was the weak point of the conventional polyphenylene ether resin.

2: Characteristics of Modified PPE/PE

A) Oil resistance and chemical resistance:

Oil resistance and chemical resistance nearly equivalent to nylon 66 resin.

B) Inflammability : Recognized as UL94V-0

C) Heat resistance: Non-reinforced type, but sufficient heat resistance.

D) Mold ability :

Excellent flow ability enabling the formation of large and thin-walled moldings.

E) Dimension stability:

Dimensional stability superior to nylon 66 resin reducing dimensional change due to suction of water.

3: Recommended Use

Where your terminal blocks are used in an environment where oil (cutting oil, etc...) can adhere to them, you are advised to use the AG series of modified PPE/PA instead of the standard models.

Oil and Chemical-resistant Terminal Block



PTU-20AG

Material : Modified PPE / PA

Rating

Model	Rating
PTU-10AG	AC/DC 600V 15A (1.25mm ²)
PTU-20AG	AC/DC 600V 22A (2.0mm ²)
PTU-30AG	AC/DC 600V 30A (3.5mm ²)
PTU-40AG	AC/DC 600V 40A (5.5mm ²)
PTU-80AG	AC/DC 600V 75A (14.0mm ²)

Oil, Heat & Chemical resistant

(C Rail 20mm only)

This type employs an oil-resistant, heat-resistant and chemical-resistant resin for the insulation parts of the terminal block

○ **Material** : PBT resin (UL94-0)

○ **Service conditions**

Ambient temperature : -25°C to +100°C

Relative humidity : 45% to 85%

1: Reinforced PBT

This PBT resin, which excels in chemical resistance and especially in oil resistance, is reinforced with glass fiber.

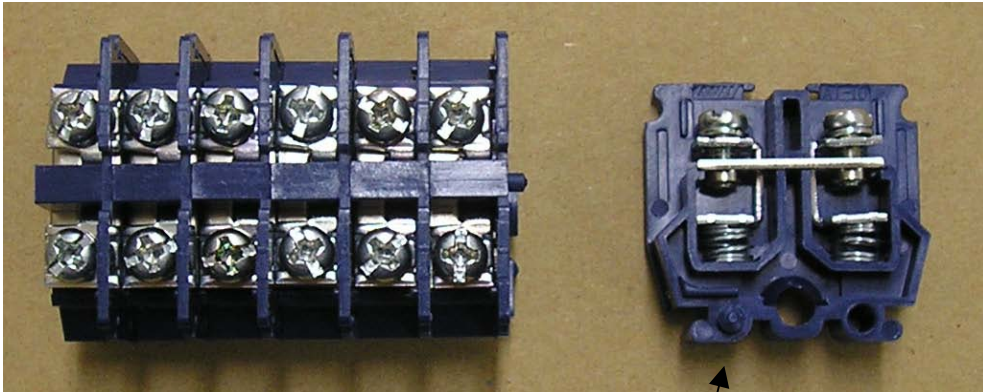
The glass-reinforced PBT displays greater heat resistance than most other engineering plastics.

2: Recommended use

Where your terminal blocks are used in a high temperature environment where oil (cutting oil, etc...) can adhere to them, you are advised to use the G series of reinforced PBT.

Performance and Characteristics

- Standard service condition: Ambient temperature -25°C to 100°C
Relative humidity : 45 to 85%
- Temperature rise: 35 degrees or less at conductive plate
- Insulation resistance: 200MΩ or more between live parts and between each live part and metal plate (Measured with DC 500V megger)
- Power-frequency withstand voltage: 2500V for 1 minutes
- Applicable standard: JIS C 2811



AT-15LG

Material : Reinforced PBT

Rating

Model	Rating
AT-10G	AC/DC 600V 20A (2.0mm ²)
AT-15LG	AC/DC 600V 30A (3.5mm ²)
AT-20G	AC/DC 600V 40A (5.5mm ²)
AT-30G	AC/DC 600V 50A (8.0mm ²)
AT-60G	AC/DC 600V 90A (22.0mm ²)
AT-100G	AC/DC 600V 130A (38.0mm ²)
AT-150G	AC/DC 600V 160A (60.0mm ²)