

PNS20-24S05 Non-isolated DC/DC Converter

Features

- Powering the auto applications
- High efficiency: >90%
- Wide input voltage range: 8-30V
- Single output: 5V
- Input under-voltage shutdown
- Output over-current ,over-voltage, under-voltage , short-circuit protection
- Low output ripple and noise
- Pass the CISPR 25 & EN55025.

Environmental

- Operating board temperature range:
-25°C to 65°C
- Storage temperature range:
-55°C to 125°C
- Temperature coefficient:
$\pm 0.02\%/^{\circ}\text{C}$
- MTBF:
>2 million hrs

Electrical Specifications

Input

| | |
|-------------------------------|------------|
| Input range: | 8-30Vdc |
| Input under-voltage shut down | 3.6-4.5Vdc |

Output

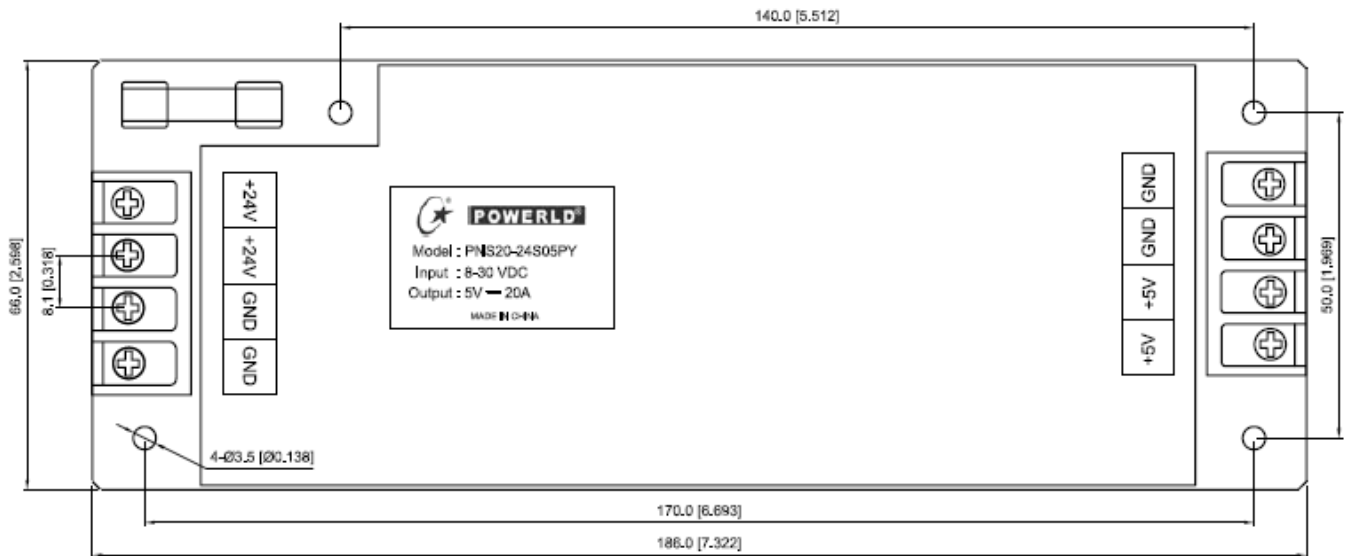
| | |
|-----------------------------|---|
| Voltage set point accuracy: | $\pm 3.0\%V_o$ max |
| Line regulation: | 0.2% V_o max |
| Load regulation: | 0.2% V_o max |
| Over-current protection: | >120% I_o , hiccup |
| Short-circuit protection: | Hiccup |
| Ripple and noise: | <60mVpp max. |
| Transient response: | 120mV max recovery<120us max (25%~50%~25% $I_{o\max}$) di/dt: 1A/10uS |



Ordering Information

| Input Voltage | Output Voltage | Output Current | Efficiency | Model Number |
|---------------|----------------|----------------|------------|---------------|
| 12/24 V | 5V | 20A | ≥90% | PNS20-24S05MY |

Dimensions



TOLERANCES: X.Xmm=+/-0.5mm
 X.XXmm=+/-0.25mm

Unit:mm[inch]