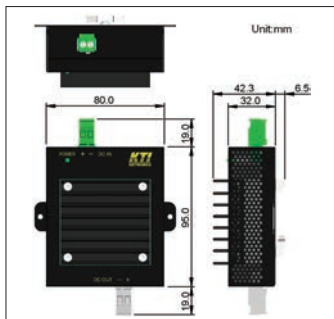




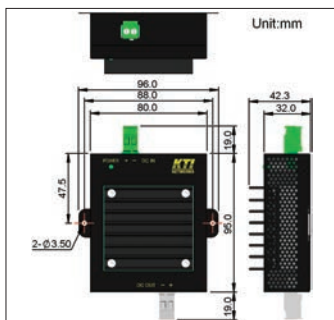
# KPW-D48T12, KPW-D48T24



## 60W/90W Isolated DC-DC Power Converters



DIN-Rail Dimension



Panel Dimension

### Key Features:

- Isolated conversion between input and output
- Industrial rating for EMC standard
- Support din-rail mounting and panel mounting
- Protections: short circuit/over power/over current/over voltage/over temperature
- Wide range of operating temperature -30°C ~ 70°C

### Applications:

- Support PoE powered devices for power conversion from the received PoE voltage to local voltages, 12V or 24V
- Support new PoE standard, PoE++ high power applications up to 90W

### Specifications:

#### Power Rating

| Model         | DC IN    | DC OUT | Output Power | Efficiency* |
|---------------|----------|--------|--------------|-------------|
| KPW-D48T12-60 | 44 ~ 60V | 12V±2% | 60W          | 87%         |
| KPW-D48T12-90 | 36 ~ 70V | 12V±1% | 90W          | 86%         |
| KPW-D48T24-60 | 44 ~ 60V | 24V±2% | 60W          | 88%         |
| KPW-D48T24-90 | 44 ~ 70V | 24V±1% | 90W          | 83%         |

\* Measured with full load at Vin 48V and up

DC Input connectors 2P European Terminal Block: Vin+/ Vin -

DC Output connectors 2P European Terminal Block: Vout+/ Vout-

LEDs Input power status

Isolation DC IN lines vs. DC OUT lines 1.5KVDC

Protection Auto-recovery for short circuit, OCP, OPP, OTP  
Zener diode clamp for OVP

Mounting Support DIN-Rail, Panel mounting

Environmental Operating temperature: -30°C ~ +70°C  
Storage temperature: -30°C ~ +85°C  
Relative Humidity: 5% ~ 95% non-condensing

#### Power Derating

| Model         | No Air flow                         | Air flow 1m/s                       |
|---------------|-------------------------------------|-------------------------------------|
| KPW-D48T12-60 | 100% (45°C), 75% (55°C)             | 100% (50°C), 75% (60°C), 55% (70°C) |
| KPW-D48T12-90 | 80% (40°C), 60% (50°C)              | 100% (50°C), 80% (60°C), 60% (68°C) |
| KPW-D48T24-60 | 100% (40°C), 80% (50°C), 50% (70°C) | -                                   |
| KPW-D48T24-90 | 80% (35°C), 60% (45°C)              | 100% (50°C), 80% (60°C), 60% (68°C) |

Housing Enclosed metal with no fan

Dimensions 96 x 42.3 x 95 mm (LxWxH)

Approval FCC Class A, CE mark Class A, VCCI Class A  
IEC 60068-2-64 Vibration, IEC 60068-2-27 shock 30G test



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