



# KPW-2012-D-E



## DIN-Rail AC-DC 12V/20W Power Supply

DIN-Rail Mounting



Panel Mounting Bracket  
PMB-0540



Accessories



### Key Features:

- Universal AC input/Full range
- Dual types of input interfaces:
  - Typical IEC320 AC socket for commercial installation
  - Industrial Terminal block connector for industrial installations
- Dual types of DC output interfaces:
  - 2 pairs of industrial Terminal block connectors for industrial installations
  - Typical DC plug support for commercial installation
- No load power consumption < 0.75W
- Protections: Short circuit/Overload/Over voltage
- UL60601-1/IEC60601-1/EN60601-1 safety approved internal Power Module
- IEC60950-1 safety approved for Power Supply

### Specifications:

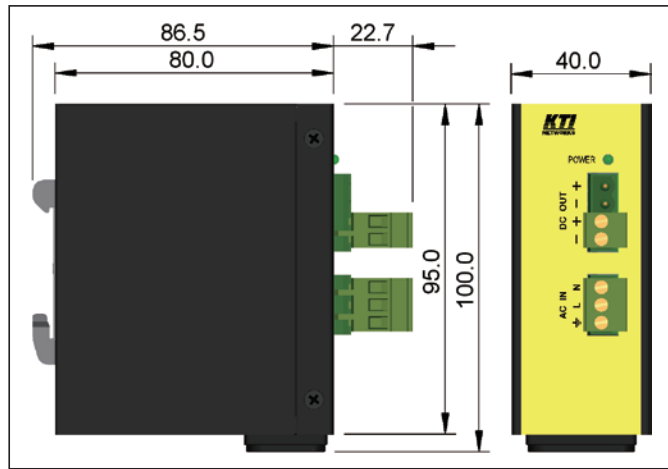
|                       |  |
|-----------------------|--|
| AC Input voltage      | 100 ~ 240VAC<br>Power Load: 100%@115~240VAC, 90%@100~115VAC  |
| DC Output voltage     | +12V (+/-1%), 1.8A max.  |
| Output Rated Power    | 21.6W  |
| Efficiency            | 81% (Typ.)   |
| Input connectors      | IEC320 C14 socket<br>Terminal block 3P: L/N/PE   |
| Output connectors     | Terminal block 4P (2 pairs): Vout+/Vout-/Vout+/Vout-<br>DC plug cable for Device's DC jack interface   |
| LEDs                  | Power status   |
| Mounting Support      | DIN-Rail, Wall, Panel, Desktop   |
| Protection            | Short circuit, Overload, Over voltage  |
| Environment           | Operating Temperature: -20°C ~ 60°C<br>Power Load: 100%@-20°C ~ 50°C, 50%@60°C<br>Storage Temperature: -30°C ~ 85°C<br>Relative Humidity: 10% ~ 90% non-condensing |
| Dimensions            | 40 x 80 x 95 mm (WxDxH)  |
| Internal Power Module | UL60601-1, IEC60601-1, TUV EN60601-1 Certified   |
| MTBF                  | 400K Hours   |
| Approval              | FCC Class A, CE mark Class A, LVD, IEC60950-1 safety,<br>IEC 60068-2-64 Vibration, IEC 60068-2-27 Shock 50G test<br>NEMA TS2 environment                           |

**EMI EMS Safety Environmental Tests:**

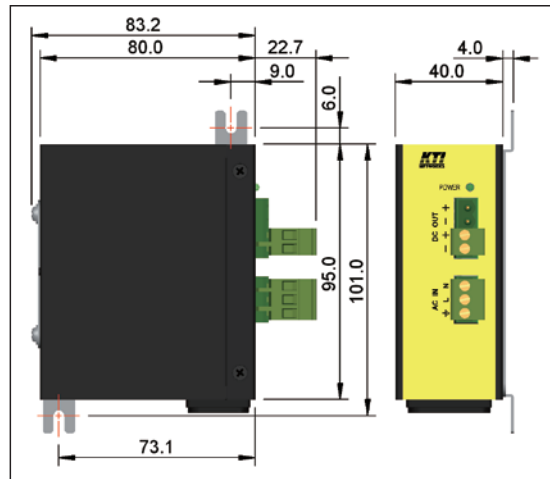
| Test                  | Standard            | Specifications   |
|-----------------------|---------------------|--|
| FCC/EMI               | FCC Rule Part 15    | Class A  |
| CE/EMC/EMI            | EN55022, CISPR 22   | Class A  |
| CE/EMC/Harmonic       | EN 61000-3-2        | < 75 W   |
| CE/EMC/VFF            | EN 61000-3-3        | Clause 5   |
| CE/EMC/EMS            | EN 55024            |  |
| ESD Test              | IEC 61000-4-2       | Contact: +/-8kV<br>Air: +/-16kV                                      |
| RS Test               | IEC 61000-4-3       | Strength: 10V/m  |
| EFT/BURST             | IEC 61000-4-4       | Line-Line: 2kV<br>Line-Ground: 4kV                                   |
| Surge Immunity        | IEC 61000-4-5       | Line-Line: 2kV<br>Line-Ground: 4kV                                   |
| CS Test               | IEC 61000-4-6       | Level 3  |
| Magnetic Field Imm.   | IEC 61000-4-8       | 50Hz 100A/m  |
| Voltage Dips Imm.     | IEC 61000-4-11      | Interrupt 95%: C<br>Dips 95%: B                                      |
| Safety                | EN 60950, IEC 60950 |  |
| Dielectric Voltage    | IEEE 802.3          | TP, 1500VAC/60sec.   |
| Insulation Resistance | IEEE 802.3          | TP, 500VDC/10Mohm  |
| Cold Test             | IEC 60068-2-1 Ad    | -20°C, 96hrs   |
| Dry Heat Test         | IEC 60068-2-2 Bd    | +60°C, 42%RH, 96hrs  |
| Damp Heat Test        | IEC 60068-2-3 Ca    | +60°C, 90%RH, 96hrs  |
| Storage Test          | IEC 60068-2-48      | -20°C, 96hrs<br>+90°C, 95%RH, 96hrs                                  |
| Vibration Test        | IEC 60068-2-64 Fh   | 10-200Hz, 0.1g <sup>2</sup> /Hz<br>200-500Hz, 0.03g <sup>2</sup> /Hz |
| Shock test            | IEC 60068-2-27 Ea   | 50G  |
| NEMA TS2              | NEMA TS2-2003       | 5-30Hz, 0.5g   |
| Vibration test        | Proc. 2.2.8         | xYz, 1hr/axis  |

**Optional Accessories:**

PMB-0540 Panel mounting kit for KFS-0540, KFS-0840, KPW-2012-D-E



DIN-Rail Dimension



Panel Dimension



AC power cord + Power supply + DC plug cable + KGS-810F



**Katron Technologies Inc.**  
 15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
 Hsi-chih District, New Taipei City, Taiwan  
 Tel: 886-2-2698-3878  
 Fax: 886-2-2698-3873  
 E-mail: kti@ktinet.com.tw  
 URL: http://www.ktinet.com.tw

Trademarks: All brand names are trademarks or registered trademarks of their respective holders. This information is subject to change without prior notice.