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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## TDK-Lambda

## 5 to 15W AC-DC Board Mount Power Supplies

## Features

- Small Size and lightweight
- PC board Mountable
- Low Cost
- Universal Input Voltage
- UL Class II Approved
- Wide input range
- No external components needed



## Key Market Segments \& Applications

- Factory Automation
- Printers and motor drives
- Kiosks

| Specifications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Model |  | KPS-5 | KPS-10 | KPS-15 |
| Input Voltage range | - | 85-264VAC (47-440Hz) or 110-370VDC |  |  |
| Inrush Current (115 / 230VAC) | A | 20/40 |  |  |
| Input Current (115/230VAC) | A | 0.13 / 0.07 | 0.27 / 0.13 | 0.4 / 0.2 |
| Temperature Coefficient | - | $\pm 0.05 \% /{ }^{\circ} \mathrm{C}$ |  |  |
| Voltage Accuracy | - | $\pm 1 \%$ |  |  |
| Minimum Load | A | None |  |  |
| Load Regulation | - | $\pm 1 \%$ (10\% to 100\% load) |  |  |
| Line Regulation (1) | - | $\pm 0.5$ \% |  |  |
| Ripple \& Noise | mV | $1 \%$ or 50 mV whichever is greater |  |  |
| Short Circuit Protection | - | Continuous - hiccup mode |  |  |
| Overvoltage Protection | V | 130-150\% |  |  |
| Hold Up Time (Typ@115VAC) | ms | 8 | 16 | 16 |
| LED Indicator | - | Green LED = OK |  |  |
| Operating Temperature | - | 0 to $+70^{\circ} \mathrm{C}$, derate linearly to $25 \%$ load from $40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ |  |  |
| Storage Temperature | - | -20 to $+85^{\circ} \mathrm{C}$ |  |  |
| Humidity (non condensing) | - | 10-95\% RH |  |  |
| Cooling | - | Convection |  |  |
| Withstand Voltage | - | Input to Output 3kVAC |  |  |
| Vibration (non operating) | - | $23.52 \mathrm{~m} / \mathrm{s}^{2}(10-55 \mathrm{~Hz}$ : constant sweep $1 \mathrm{~min} \mathrm{X}, \mathrm{Y}, \mathrm{Z}$ for 1 hour) |  |  |
| Shock | - | $<196.1 \mathrm{~m} / \mathrm{s}^{2}$ (20G) |  |  |
| Safety Agency Approvals | - | UL60950-1, CSA60950-1, EN60950-1, Class II, CE Mark |  |  |
| Conducted \& Radiated EMI | - | EN55022-B, FCC Class B |  |  |
| Immunity | - | EN61000-4 -2, -3, -4, -5, -6 |  |  |
| Weight (Typ) | g (oz) | 29 g (1oz) | 60 g (2oz) | 80 g (2.8oz) |
| Size (WxLxH; H above pcb) | in. | $1.38 \times 2.17 \times 0.79$ | $1.77 \times 2.56 \times 0.91$ | $1.89 \times 2.75 \times 0.91$ |
| Warranty | - | One Year |  |  |

Notes: (1) KPS-5 Measured from 100-240VAC
(2) Measured with 0.1 uF ceramic \& 10 uF electrolytic at 20 MHz BW

| Model Selector |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Output <br> Voltage (V) | Maximum <br> Output (A) | Peak Load <br> (A)(3) | Output <br> Pwr (W) | Effic <br> (\%) |
| Model | 3.3 | 1.25 | - | 4.1 | 70 |
| KPS5-3R3 | 5.0 | 1.00 | - | 5.0 | 70 |
| KPS5-5 | 12.0 | 0.42 | - | 5.0 | 70 |
| KPS5-12 | 15.0 | 0.33 | - | 5.0 | 70 |
| KPS5-15 | 24.0 | 0.23 | - | 5.5 | 77 |
| KPS5-24 | 3.3 | 2.50 | 3.80 | 8.3 | 65 |
| KPS10-3R3 | 5.0 | 2.00 | 2.80 | 10.0 | 70 |
| KPS10-5 | 12.0 | 0.84 | 1.20 | 10.1 | 75 |
| KPS10-12 | 15.0 | 0.67 | 1.00 | 10.1 | 75 |
| KPS10-15 | 24.0 | 0.42 | 0.65 | 10.1 | 78 |
| KPS10-24 | 3.3 | 3.00 | 4.50 | 9.9 | 70 |
| KPS15-3R3 | 5.0 | 3.00 | 4.50 | 15.0 | 73 |
| KPS15-5 | 12.0 | 1.25 | 1.80 | 15.0 | 80 |
| KPS15-12 | 15.0 | 1.00 | 1.50 | 15.0 | 80 |
| KPS15-15 | 24.0 | 0.63 | 0.95 | 15.1 | 82 |
| KPS15-24 |  |  |  |  |  |



For Additional Information, please visit us.tdk-lambda.com/lp/products/kps-series.htm


## KPS5 Outline Drawing



All Dimensions are in inches[mm]
Tolerances:, $\mathrm{XX} \pm .02[. \mathrm{X} \pm .5]$ uniess otherwise noted

## KPS15 Outline Drawing



