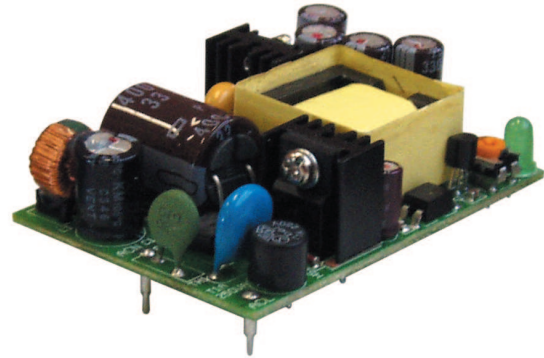


## 5 to 15W AC-DC Board Mount Power Supplies

### 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

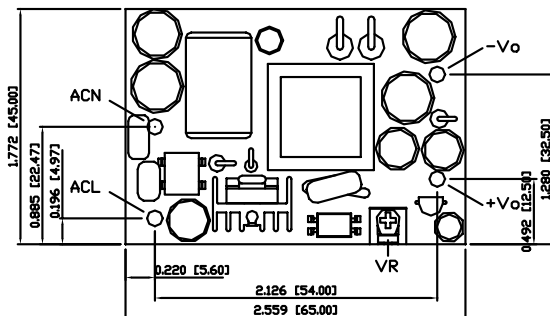
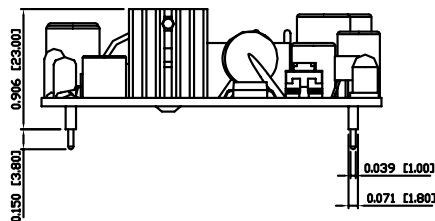
| Model                         |        | KPS-5                                                                      | KPS-10             | KPS-15             |
|-------------------------------|--------|----------------------------------------------------------------------------|--------------------|--------------------|
| 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       | -      | ±0.05%/°C                                                                  |                    |                    |
| Voltage Accuracy              | -      | ±1%                                                                        |                    |                    |
| Minimum Load                  | A      | None                                                                       |                    |                    |
| Load Regulation               | -      | ±1% (10% to 100% load)                                                     |                    |                    |
| Line Regulation (1)           | -      | ±0.5%                                                                      |                    |                    |
| Ripple & Noise (2)            | mV     | 1% or 50mV 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°C, derate linearly to 25% load from 40°C to 70°C                  |                    |                    |
| Storage Temperature           | -      | -20 to +85°C                                                               |                    |                    |
| Humidity (non condensing)     | -      | 10 - 95% RH                                                                |                    |                    |
| Cooling                       | -      | Convection                                                                 |                    |                    |
| Withstand Voltage             | -      | Input to Output 3kVAC                                                      |                    |                    |
| Vibration (non operating)     | -      | 23.52m/s <sup>2</sup> (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour) |                    |                    |
| Shock                         | -      | < 196.1 m/s <sup>2</sup> (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) | 29g (1oz)                                                                  | 60g (2oz)          | 80g (2.8oz)        |
| Size (WxLxH; H above pcb)     | in.    | 1.38 x 2.17 x 0.79                                                         | 1.77 x 2.56 x 0.91 | 1.89 x 2.75 x 0.91 |
| Warranty                      | -      | One Year                                                                   |                    |                    |

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

## Model Selector (other voltages available)

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

## KPS10 Outline Drawing



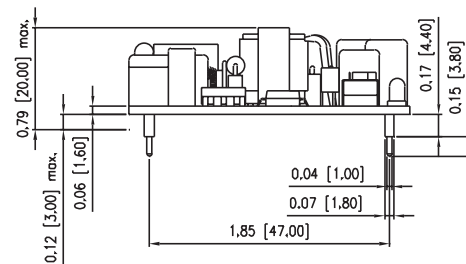
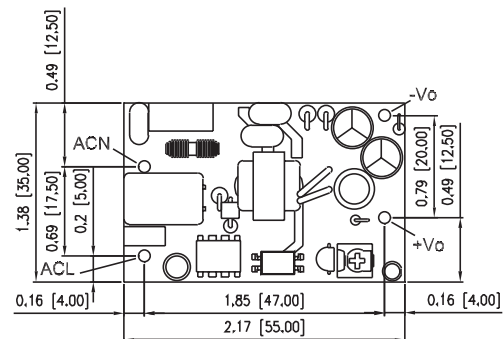
## Other Industrial Products

|       |                           |
|-------|---------------------------|
| ZP    | 40W & 60W, 2x4" footprint |
| NV175 | 175W, 3x5", 1-5 outputs   |
| ZWS   | 5 to 240W, single output  |

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/kps-series.htm](http://us.tdk-lambda.com/lp/products/kps-series.htm)



## KPS5 Outline Drawing



All Dimensions are in inches[mm]  
 Tolerances: XX±.02[.X±.5] unless otherwise noted

## KPS15 Outline Drawing

