TDK·Lambda

# LD12 Series

## 12W IP66 Power Supplies



- Small Size
- 115VAC or 230VAC input
- Constant Current or Constant Voltage Versions
- Splash proof
- Conservative component ratings for long life

RoHS

### Key Market Segments & Applications

LED Lighting
Damp Environments

### Specifications

| ITEMS \ MODEL | | LDC12 | LDV12 |
|---|---|---|---|
| AC Input | VAC/Hz | 90 - 264VAC, 47 - 63Hz | |
| Inrush Current (100/200VAC) | A | 25 / 50A, 25°C ambient, cold start | |
| Input Current (110/200VAC) | A | 0.28 / 0.18A | |
| Temperature Coefficient | - | <0.02%/°C (0 - 50°C) | |
| Overcurrent Protection | - | Automatic Recovery | > 105% of rated power |
| Overvoltage Protection | % | > 110% | |
| Turn on time | ms | < 200ms | |
| Hold Up Time (115/230V input) | ms | 5ms typical | |
| Leakage Current (265VAC 60Hz) | mA | 0.25mA | |
| Efficiency | % | 82% typical at full load | |
| Operating Temperature | - | -10 to +60°C (Guaranteed start up at -20°C) | |
| Storage Temperature | - | -30 to +85°C | |
| Operating Humidity (1) | - | 15 - 90% RH | |
| Storage Humidity (1) | - | 15 - 90% RH | |
| Cooling | - | Convection | |
| Withstand Voltage | - | Input to Output 3kVAC | |
| Isolation Resistance | - | >100M at 25°C & 70%RH, Input to Output at 500VDC | |
| Vibration (non operating) | - | 10 - 55Hz: 19.6m/s$^2$ constant sweep 1 min X, Y, Z for 30 mins | |
| Shock | - | < 196.1 m/s$^2$ (20G) | |
| Immunity | - | IEC61000-4-2, -3, -4, -5, -6, -8, -11 | |
| Safety Agency Approvals | - | UL1310 (Class 2), IEC61347-1, IEC61347-2-13, CE Mark | |
| Conducted & Radiated EMI | - | EN55015, EN55022, FCC Class B | |
| IP Class | - | IP66 | |
| Weight (Typ) | g | 84 | |
| Size (LxWxH) | in(mm) | 3.45 x 1.36 x 0.83" (90 x 34.5 x 21mm) | |
| Warranty | yrs | Three Years | |

(1) Non condensing

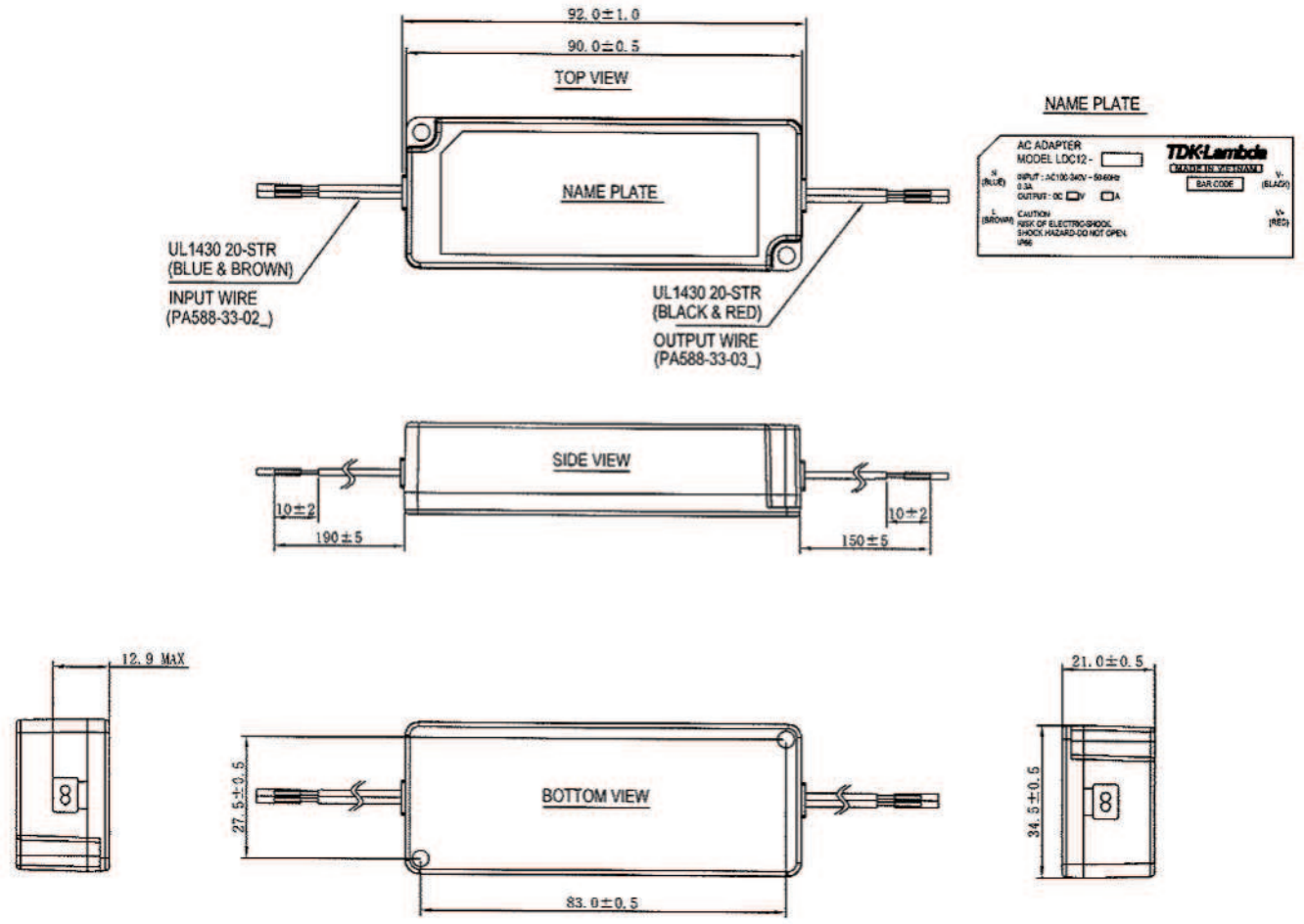
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## Model Selector

| Model | CV/CC | Output Voltage (V) | Output Accuracy | Min. Output Current (A) | Output Current (A) | Maximum Average Power | Ripple & Noise |
|---|---|---|---|---|---|---|---|
| LDC12-36-R35 | CC | 3 - 36V | 0.33 - 0.37A | - | 0.35A | 12.6W | - |
| LDC12-18-R70 | CC | 3 - 18V | 0.66 - 0.735A | - | 0.7A | 12.6W | - |
| LDV12-12-1R0 | CV | 12 | 11.4 - 12.6V | 0.1A | 1A | 12W | 100mV |
| LDV12-15-R80 | CV | 15 | 14.25 - 15.75V | 0.08A | 0.8A | 12W | 100mV |
| LDV12-24-R50 | CV | 24 | 22.8 - 25.2V | 0.05A | 0.5A | 12W | 150mV |

## Outline Drawing




For Additional Information, please visit
us.tdk-lambda.com/products/ld12-series.htm



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