

Thomas Research Products

Innovative & Energy Saving Lighting Controls

LED-17W Series

Switch Mode LED Drivers
Constant Current & Constant Voltage with Isolation
Black Magic Thermal Advantage™ Housing

Total Power: 17 Watts
Input Voltage: 100-277 VAC
Outputs: Single from 6 VDC to 36 VDC
Indoor or Outdoor Applications
Active Power Factor Correction
UL1310, Class 2 and UL 48 Compliant
IP66 Compliant

Electrical Specifications

| | |
|----------------------|--|
| Input Voltage Range: | 100 – 277 VAC |
| Frequency: | 47 to 63 Hz |
| Power Factor: | >0.94 at full load |
| Inrush Current: | <2 Amps maximum @ 230 VAC, cold start 25°C |
| Input Current: | 0.20 Amps maximum at 115 VAC |
| Efficiency: | 82% typical at maximum load |
| Maximum Power: | 17W |
| Current Accuracy: | +/- 1% (when applicable) |
| Load Regulation: | +/- 3% |
| Leakage Current: | 300 uA Typical |
| Hold Up Time: | Half Cycle |
| Protection: | Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection with Auto Recovery |

Environmental Specifications

| | |
|------------------------|--|
| Operating Temperature: | -30°C to +60°C |
| Maximum Case Temp. | 90°C |
| Storage Temperature: | -40°C to +85°C |
| Humidity: | 5% to 95% |
| Cooling: | Convection |
| Vibration Frequency: | 5 to 55 Hz/2g, 30 minutes |
| MTBF: | 543,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2 |
| EMC: | Compliant to CISPR 22 Class B, CISPR 14-1 Class B, GB4343 1-2003, GB17625.1-2003 |

Constant Current Versions - Product Specifications

| Model Number | Output voltage range | Output constant current | Current accuracy | Output power | Max. efficiency |
|-----------------|----------------------|-------------------------|------------------|--------------|-----------------|
| LED17W-36-C0470 | 18-36VDC | 470mA | +/-3% | 17W | 83% |
| LED17W-24-C0700 | 12-24VDC | 700mA | +/-3% | 17W | 82% |
| LED17W-12-C1400 | 6-12VDC | 1400mA | +/-3% | 17W | 82% |

Constant Voltage Versions - Product Specifications

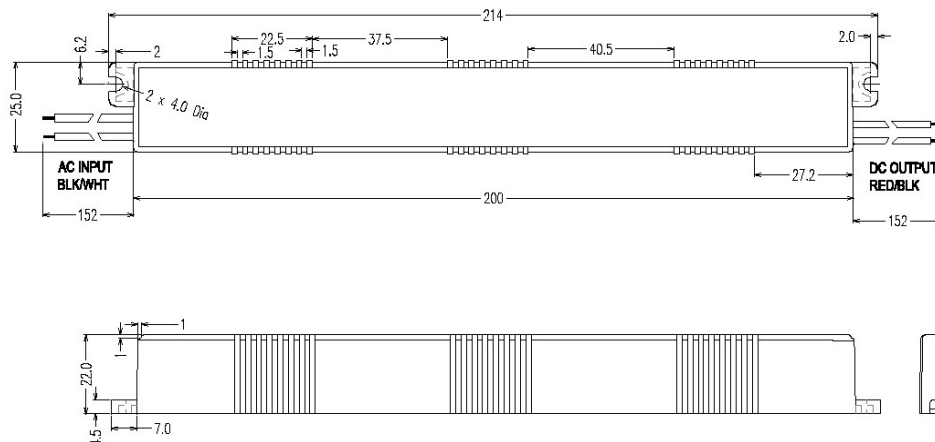
| Model Number | Output constant voltage | Output current (max.) | Voltage accuracy | Output power | Max. efficiency |
|--------------|-------------------------|-----------------------|------------------|--------------|-----------------|
| LED17W-36 | 36VDC | 470mA | +/-3% | 17W | 83% |
| LED17W-24 | 24VDC | 700mA | +/-3% | 17W | 82% |
| LED17W-22 | 12VDC | 1400mA | +/-3% | 17W | 82% |



Safety and Regulatory Certifications

UL 8750, UL1310, UL47, CSA 22.2, CE, FCC, IP66

Dimensions



01-06-10