Thomas Research Products

Innovative & Energy Saving Lighting Controls

LED-25W Series

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

Total Power: 25 Watts
Input Voltage: 100-277 VAC
Outputs: Single from 8 VDC to 36 VDC
Indoor or Outdoor Applications
Active Power Factor Correction
UL1310, Class 2 and UL 48 Compliant
IP66 Compliant

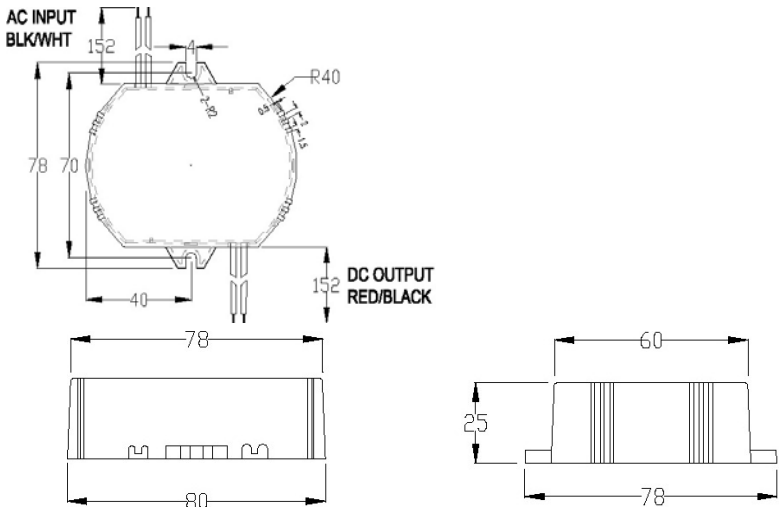
Electrical Specifications

Input Voltage Range:	**100 ~ 277 VAC**
Frequency:	**47 to 63 Hz**
Power Factor:	**>0.90% at full load**
Inrush Current:	**<15.0 Amps maximum @ 230 VAC, cold start 25ºC**
Input Current:	**0.30 Amps maximum at 115 VAC**
Efficiency:	**85% typical at maximum load**
Maximum Power:	**25W**
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:	**-30ºC to +60ºC**
Maximum Case Temp.	**90°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 95%**
Cooling:	**Convection**
MTBF:	**524,000 Hours at full load and 40ºC 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**

Dimensions



Constant Current Versions - Product Specifications

Model Number	Output voltage range	Output constant current	Current accuracy	Output power	Max. efficiency
LED25W-36-C0620	18-36VDC	620mA	+/-3%	23W	87%
LED25W-36-C0700	18-36VDC	700mA	+/-3%	25W	88%
LED25W-28-C0850	14-28VDC	850mA	+/-3%	25W	87%
LED25W-24-C1040	12-24VDC	1040mA	+/-3%	25W	86%
LED25W-20-C1250	10-20VDC	1250mA	+/-3%	25W	85%
LED25W-16-C1560	8-16VDC	1560mA	+/-3%	25W	85%
LED25W-12-C2080	8-12VDC	2080mA	+/-3%	25W	85%

Constant Voltage Versions - Product Specifications

Model Number	Output constant voltage	Output current (max.)	Voltage accuracy	Output power	Max. efficiency
LED25W-36	36VDC	700mA	+/-5%	25W	87%
LED25W-28	28VDC	850mA	+/-5%	25W	87%
LED25W-24	24VDC	1040mA	+/-5%	25W	86%
LED25W-20	20VDC	1250mA	+/-5%	25W	85%
LED25W-16	16VDC	1560mA	+/-5%	25W	85%
LED25W-12	12VDC	2080mA	+/-5%	25W	85%

IP66

Safety and Regulatory Certifications
UL 8750, UL1310, UL47, CSA 22.2, CE, FCC, IP66

01-06-10

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