

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 72 VDC
Indoor or Outdoor Applications
Active Power Factor Correction
UL8750 and Class 2 Compliant, as noted
IP66 Compliant

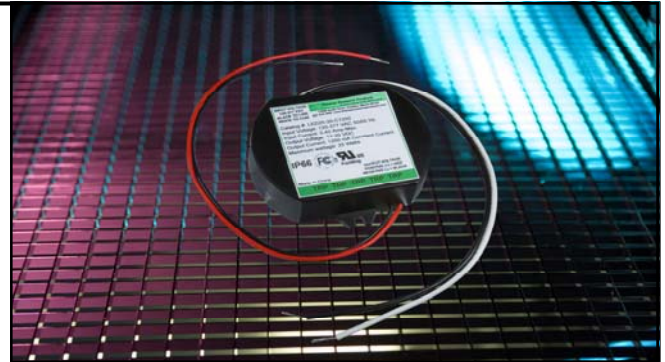
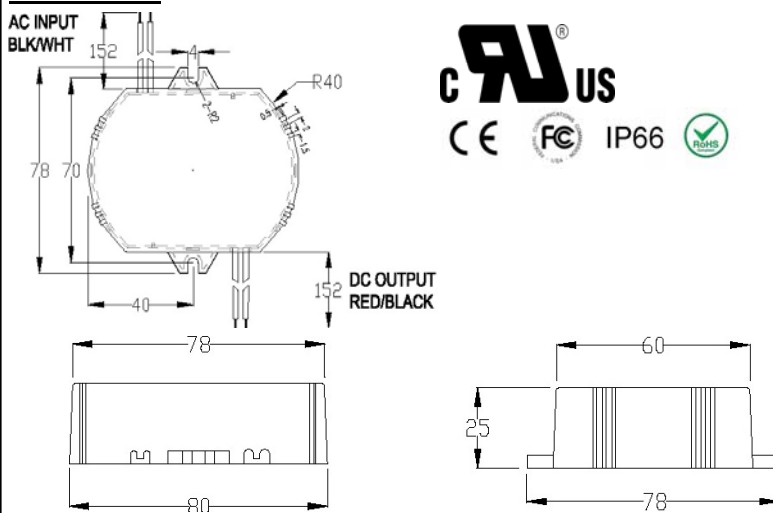
Electrical Specifications

Input Voltage Range:	100 ~ 277 VAC
Frequency:	47 to 63 Hz
Power Factor:	>0.94% at full load 115 VAC/230VAC, 60 Hz
Inrush Current:	<15.0 Amps maximum @ 230 VAC, cold start 25°C
Input Current:	0.30 Amps maximum at 115 VAC
Maximum Power:	25W
Current Accuracy:	+/- 1% over input line variation
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
MTBF:	482,000 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

Dimensions



Constant Current Versions - Product Specifications

Model Number	Output voltage range	Output constant current	Current accuracy	Output power	Max. efficiency
LED25W-72-C0350	36-72VDC	350 mA	+/-3%	25W	88%
LED25W-62-C0400	31-62 VDC	400 mA	+/-3%	25W	85%
LED25W-56-C0450	28-56 VDC	450 mA	+/-3%	25W	87%
LED25W-36-C0620	18-36VDC	620mA	+/-3%	23W	87%
LED25W-36-C0700	18-36VDC	700mA	+/-3%	25W	87%
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-72	72 VDC	350 mA	+/-5%	25W	88%
LED25W-62	62 VDC	400 mA	+/-5%	25W	87%
LED25W-56	56 VDC	450 mA	+/-5%	25W	87%
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%

Blue = Class 2 US/Canada Green = Class 2 US

Safety and Regulatory Certifications

UL 8750, CSA 22.2, EN61347, CE, FCC, IP66
Meets EN61000-3-2- and EN61000-3-3 Class C

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