

Thomas Research Products

Innovative & Energy Saving Lighting Controls

LED-20W Series

Switch Mode LED Drivers
Constant Current & Constant Voltage with Isolation

Total Power: 20 Watts
Input Voltage: 100-277 VAC
Outputs: Single from 7 VDC to 36 VDC
Indoor or Outdoor Applications
Active Power Factor Correction
UL1310, Class 2 and UL 48 Compliant
IP66 Compliant

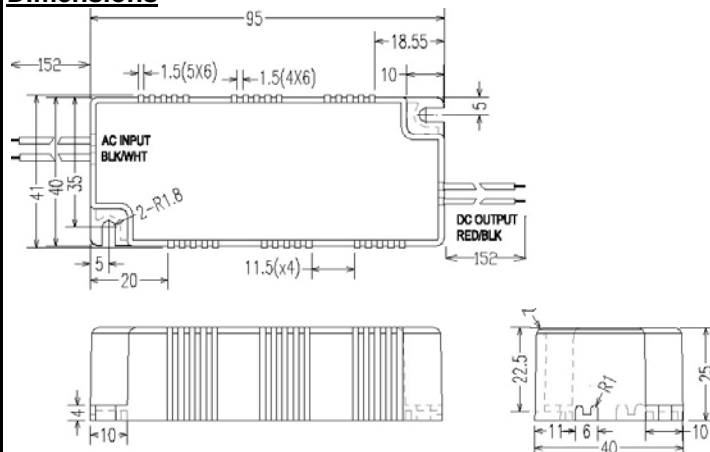
Electrical Specifications

Input Voltage Range:	100 – 277 VAC
Frequency:	47 to 63 Hz
Power Factor:	>0.92 at full load
Inrush Current:	<5.0 Amps maximum @ 230 VAC, cold start 25°C
Input Current:	0.23Amps maximum at 115 VAC
Efficiency:	85% typical at maximum load
Maximum Power:	20W
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:	531,000 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
LED20W-36-C0550	18-36VDC	550mA	+/-3%	20W	88%
LED20W-24-C0700	12-24VDC	700mA	+/-3%	17W	87%
LED20W-24-C0830	12-24VDC	830mA	+/-3%	20W	88%
LED20W-22-C0910	12-22VDC	910mA	+/-3%	20W	87%
LED20W-18-C1100	10-18VDC	1100mA	+/-3%	20W	86%
LED20W-15-C1250	9-17VDC	1250mA	+/-3%	20W	86%
LED20W-13-C1330	9-15VDC	1330mA	+/-3%	20W	86%
LED20W-12-C1540	7-13VDC	1540mA	+/-3%	20W	85%
LED20W-10-C1660	7-12VDC	1660mA	+/-3%	20W	85%
LED20W-09-C2000	7-10VDC	2000mA	+/-3%	20W	85%

Constant Voltage Versions - Product Specifications

Model Number	Output constant voltage	Output current (max.)	Voltage accuracy	Output power	Max. efficiency
LED20W-36	36VDC	550mA	+/-5%	20W	88%
LED20W-24	24VDC	830mA	+/-5%	20W	87%
LED20W-22	22VDC	910mA	+/-5%	20W	87%
LED20W-18	18VDC	1100mA	+/-5%	20W	86%
LED20W-17	17VDC	1250mA	+/-5%	20W	86%
LED20W-15	15VDC	1330mA	+/-5%	20W	86%
LED20W-13	13VDC	1540mA	+/-5%	20W	85%
LED20W-12	12VDC	1660mA	+/-5%	20W	85%
LED20W-10	10VDC	2000mA	+/-5%	20W	85%



IP66



Safety and Regulatory Certifications

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

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