



Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

LDC25W Series— DC to DC

DC to DC Switch Mode Constant Current and
Constant Voltage LED Drivers,
Black Magic Thermal Advantage™ Plastic Housing

Total Power: 25 Watts
Input Voltage: 12-24 Vdc
Outputs: Single from 12-72 Vdc
Isolated Between Primary and Secondary
Dust-proof and Water-resistant, IP66
NEMA4, Dry & Damp Location
EN60950, CE Compliant

Electrical Specifications

Input Voltage Range:	12-24VDC, 18Vdc Nom. ± 6 Vdc
Inrush Current:	<15 Amps max @ 12V, cold start 25°C
Input Current:	2.6 A @ 12Vdc, 1.6 A @ 18Vdc, max load
Maximum Power:	25W
Current Regulation:	$\pm 2\%$ Over input variation
Load Regulation:	$\pm 4\%$
Ripple and Noise:	700mV max, 20MHz B.W.
Typical Efficiency	88% @ 18Vdc, max load
Output Protection:	Over-Voltage and Over-Current, reset by power cycling

Environmental Specifications

Maximum Case Temp.	85°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5-55 Hz/2g, 30 minutes
Impact Resistance:	1g/s
MTBF:	482,000 Hours @ full load per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant
Weight:	7.0 oz. (198 g)



Constant Current Product Specifications

Part Number	Output Current (mA $\pm 4\%$)	Output Voltage Range (Vdc)	Max Output Power (W)	Typical Efficiency
LDC25W-072-C0350	350	36-72	25	90%
LDC25W-056-C0450	450	19-56	25	89%
LDC25W-036-C0700	700	18-36	25	88%
LDC25W-024-C1040	1040	12-24	25	86%

Constant Voltage Product Specifications

Part Number	Output Voltage (Vdc $\pm 5\%$)	Output Current Range (mA)	Max Output Power (W)	Typical Efficiency
LDC25W-072	72	88-350	25	90%
LDC25W-056	56	113-450	25	89%
LDC25W-036	36	175-700	25	88%
LDC25W-024	24	260-1040	25	86%

Class 2: US/Canada US Only



IP66

Note:

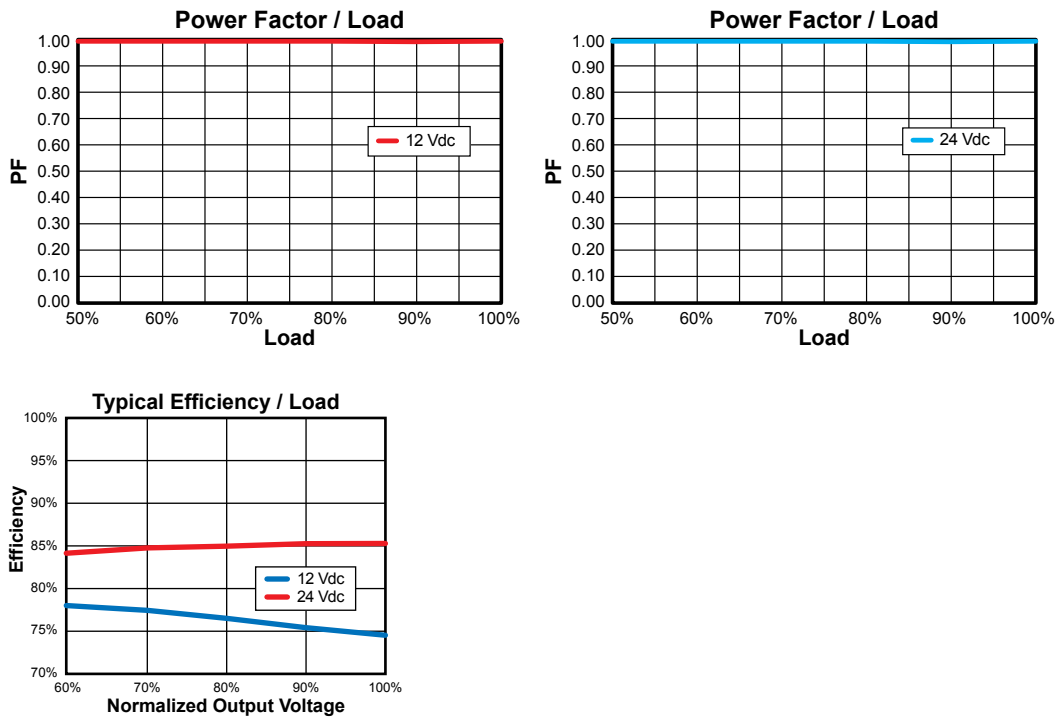
LED drivers are designed and intended to operate LED loads only.
Non-LED loading may be outside the specified design limits of our
LED driver, and therefore cannot be covered by any warranty. If you
desire to use our LED drivers to operate non-LED loads please
contact us to discuss compatibility.

Specifications subject to change without notice.

6-26-13



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See website for additional information