

FEATURES

50W Constant Voltage LED Driver

LWV050 Series

- High Efficiency & High Power Factor – Meets Energy Star & DLC
- Wide Range Input 90-305 VAC
- Five Year Warranty
- Short Circuit, Over Current and Optional Over Temperature Protection
- Waterproof (IP67)
- Certified to UL8750, EN61347 & CE
- RoHS Compliant



SPECIFICATION

See part number builder to create your full part number	Model # (2)	Current Range	Constant Voltage	Max. Output Power	Efficiency		PF (5)
					110V	277V	
	LWV050-012S2 (3)	0-4.17A	12 Vdc	50W	86.5%	88%	0.90
	LWV050-015S2 (3)	0-3.33A	15 Vdc	50W	87%	89%	0.90
	LWV050-018S2 (3)	0-2.78A	18 Vdc	50W	87%	89%	0.90
	LWV050-024S2 (3)	0-2.08A	24 Vdc	50W	88%	90%	0.90
	LWV050-036S2 (3)	0-1.39A	36 Vdc	50W	88%	90%	0.90
	LWV050-042S3 (4)	0-1.19A	42 Vdc	50W	88%	90%	0.90
	LWV050-048S3 (4)	0-1.04A	48 Vdc	50W	89%	90%	0.90
	LWV050-054S3 (4)	0-0.93A	54 Vdc	50W	89%	90%	0.90

Output	Load Regulation	±5%	
	Line Regulation	±2%	
	Turn-on Delay	2 sec. (Typ.) Measured at 110Vac input. / 1 sec. (Typ.) Measured at 220Vac input.	
	Ripple & Noise (pk-pk)	3% Vo Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor	
Input	Input voltage	100~277 Vac	
	Frequency Range	50Hz ~60Hz	
	Inrush Current	75A (Max) at 230Vac input, 25°C Cold Start	
	AC Current (Typ.)	0.7 A measured at full load and 100 Vac input / 0.35 measured at full load and 220 Vac input	
	THD	< 20% measured at 277 Vac, with a 70% load	
	Leakage Current	0.25 mA Measured at 277Vac 60Hz Input	
Protections	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	110°C Temperature of components inside the case (Optional), auto restart after cooling	
	Over Current	135% of I _o (Typ.). Hiccup mode, recovers automatically after fault condition is removed	
	Over Voltage	Latch mode: 125% of rated voltage (Typ.) recycle AC to restart power supply	
Environmental	Temperature Range	Operational	- 40°C ~+ 70°C (See Derating Curve)
		Storage	- 40 ~ +85°C
	Case Temperature	Max. +90 °C (See Mechanical Drawing for exact location)	
	Humidity	Operational	10% ~ 100% RH
		Storage	5% ~100% R.H

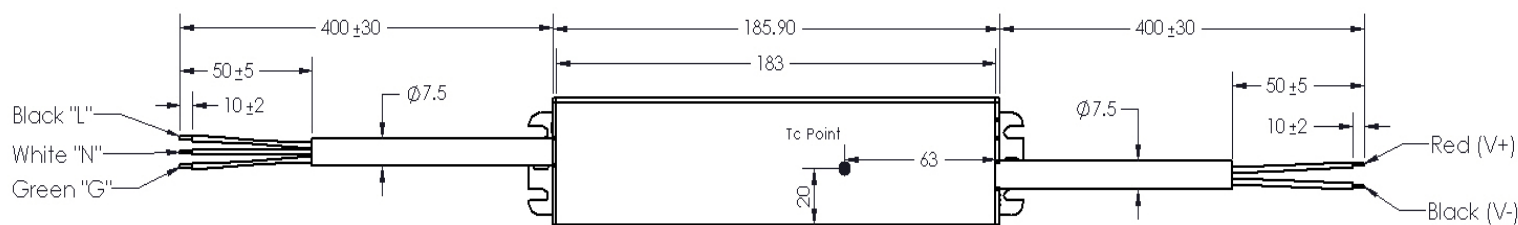


Safety & EMC	Safety Standards	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12 EN61347.1, EN61347-2-13 and EN60529
	EMI Conduction & Radiation	Meet EN55015 FCC Part 15 Class B
	EMS Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61547
	Surge	EN61000-4-2 4kV contact discharge (6kV optional available)
Others	MTBF	252,000 hours For 54V output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
	Life time	87,000 hours For 54V output model, measured at 220V input, 80%Load and 45°C ambient temperature
	Dimension	Millimeters (L*W*H) 176.9*46.2*32.3
	Weight	625g

Notes:

1. If not specified all measurement done at full load and 230 Vac input.
2. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
3. Class 2 output US & Canada
4. Class 2 output US
5. Power Factor Correction measured at 277Vac and a70% load

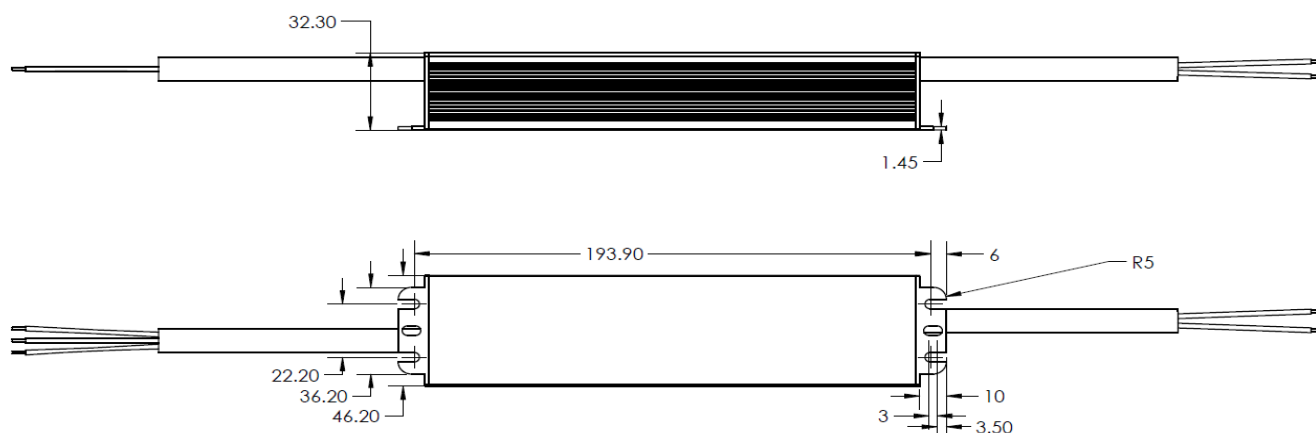
Mechanical Specifications



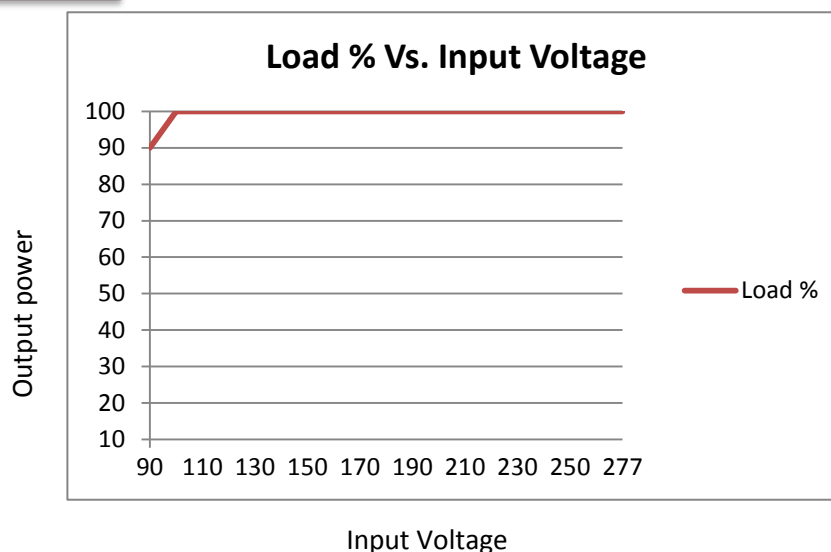
(UL)SJTW 18AWGx3C 105 °C VW-I 300V

(UL)SJTW 18AWGx2C 105 °C VW-I 300V

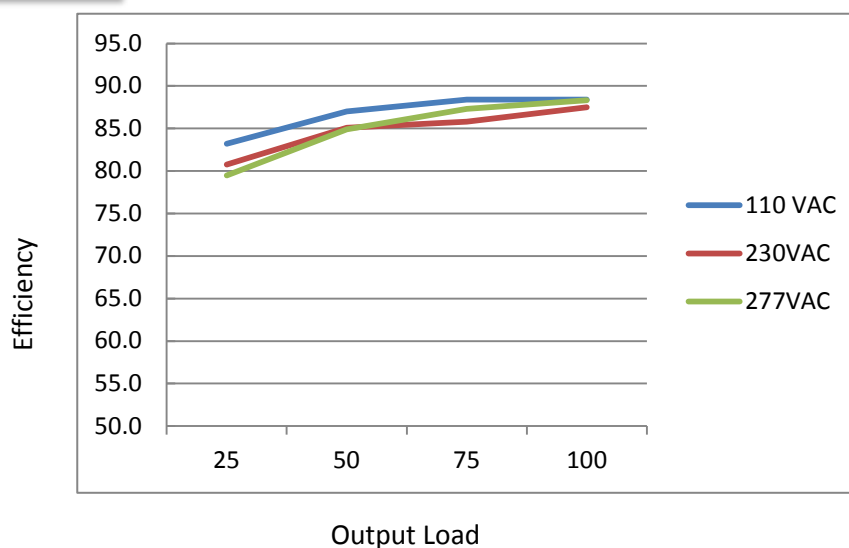




Derating Curve



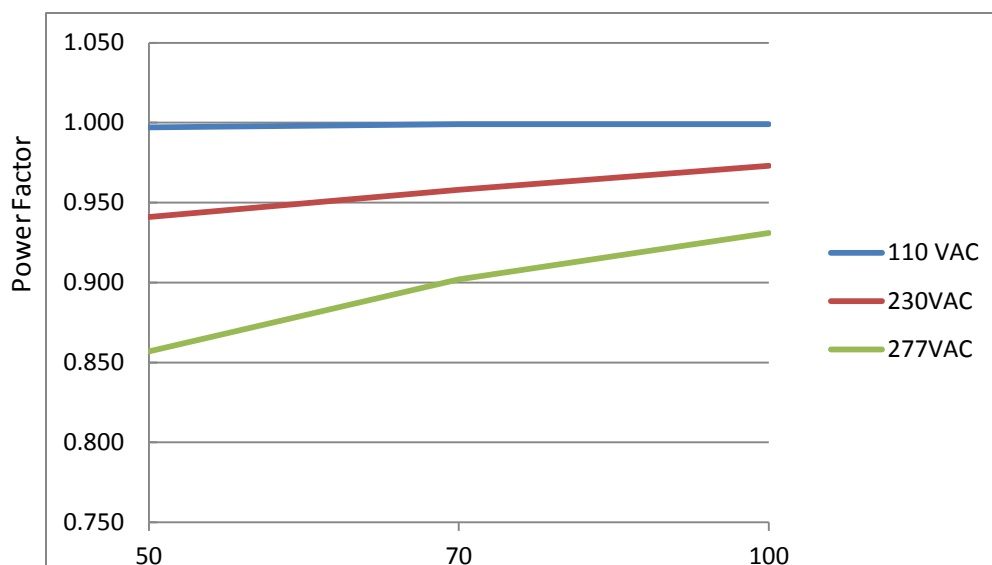
Efficiency vs. Load



54V model



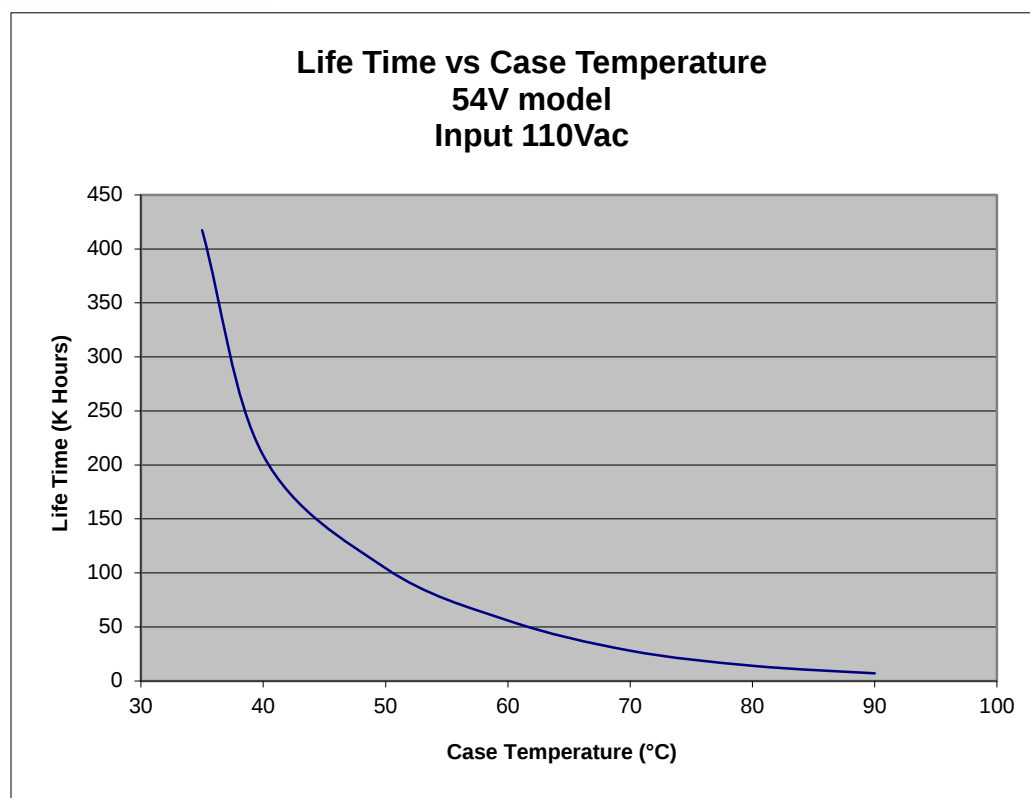
Power Factor Vs. Load



54V model

Output Load

Life Time Vs. Case Temperature



PART NUMBER SCHEME

LWV050-054SX4XT-XXX

L=AC/DC LED Driver

W=Wide Input Voltage 90-305V

V=Constant Voltage

050=Output Power (Watts)

054V =Output Voltage

Non-Standard Part Indicator

T= Thermal Switch, blank for no thermal protection

Dimming Options:
0= Non dimming

Surge Protection:
4=4kv (standard)
6=6kv (optional)

Output class:
1=Non Class 2
2=Class 2 US & Canada
3=Class 2 US Only

S=Single output

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE
AUTC IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

