

FEATURES

- High Efficiency & High Power Factor
- Five Years warranty
- Over Voltage, Short Circuit, Over Current and Optional Over Temperature Protection
- Waterproof (IP67)
- Comply with UL8750 & EN61347
- Wide Range Input 90-305 VAC

50W Constant Voltage LED Driver

LWV050 Series



SPECIFICATION

See part number builder to create your full part number	Model # (2)	Current Range	Constant Voltage	Max. Output Power	Efficiency (Typ.)		
					At 110V	At 220V	At 277V
	LWV050-012S2 (3)	0-4.17A	12 Vdc	50W	86.5%	87.5%	88%
	LWV050-015S2 (3)	0-3.33A	15 Vdc	50W	87%	88%	89%
	LWV050-018S2 (3)	0-2.78A	18 Vdc	50W	87%	88%	89%
	LWV050-024S2 (3)	0-2.08A	24 Vdc	50W	88%	88.5%	90%
	LWV050-036S2 (3)	0-1.39A	36 Vdc	50W	88%	88.5%	90%
	LWV050-042S3 (4)	0-1.19A	42 Vdc	50W	88%	88.5%	90%
	LWV050-048S3 (4)	0-1.04A	48 Vdc	50W	89%	90%	90%
	LWV050-054S3 (4)	0-0.93A	54 Vdc	50W	89%	90%	90%

Output	Load Regulation		±5%	
	Line Regulation		±2%	
	Turn-on Delay Time		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	
	PFC (Typ.) (5)	110Vac	0.99	
		220Vac	0.97	
		270Vac	0.93	
	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 100-277 Vac, from 75% to 100% Load	
Protections	Leakage Current		0.25 mA Measured at 277Vac 60Hz Input	
	Short Circuit		Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature		110°C Maximum temperature of components inside the case (Typ.). (Optional)	
	Over Current Protection		135% of I _o (Typ.). Hiccup mode, recovers automatically after fault condition is removed	
	Over Voltage		125% of rated voltage (Typ.) Protection: Latch mode	
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)	

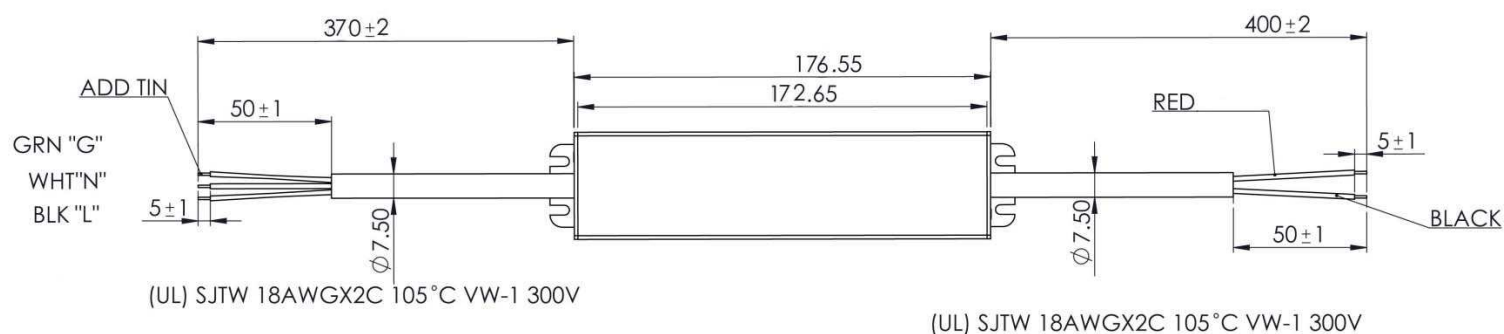


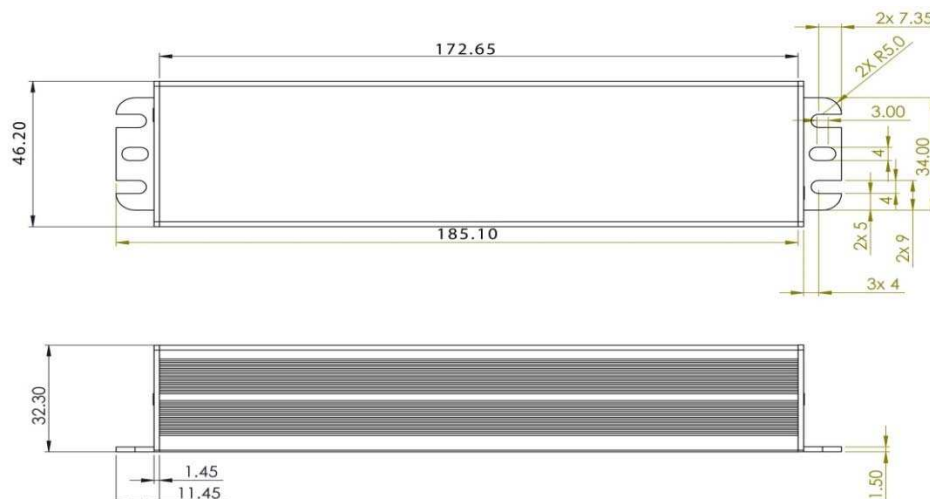
	Humidity	Operational	10% ~ 100% RH
		Storage	5% ~100% R.H
Safety & EMC	Safety Standards	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12 EN61347.1, EN61347-2-13 and EN60529	
	EMI Conduction & Radiation	Meet EN55015 FCC Part 15 Class B	
	EMS Immunity	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:

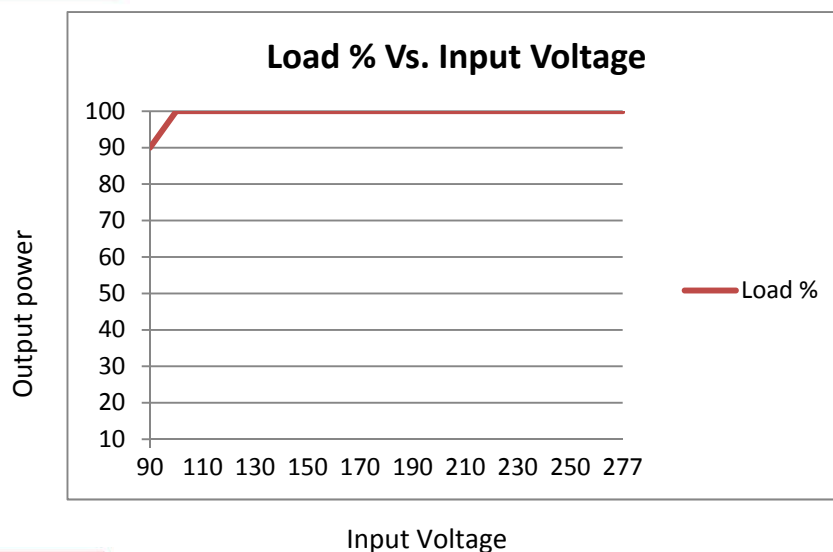
1. If not specified all measurement done at full load and 230 Vac input.
2. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
3. Class 2 Output (US & Canada)
4. Class 2 output (US), non-class 2 output (Canada)
5. Power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

Mechanical Specification

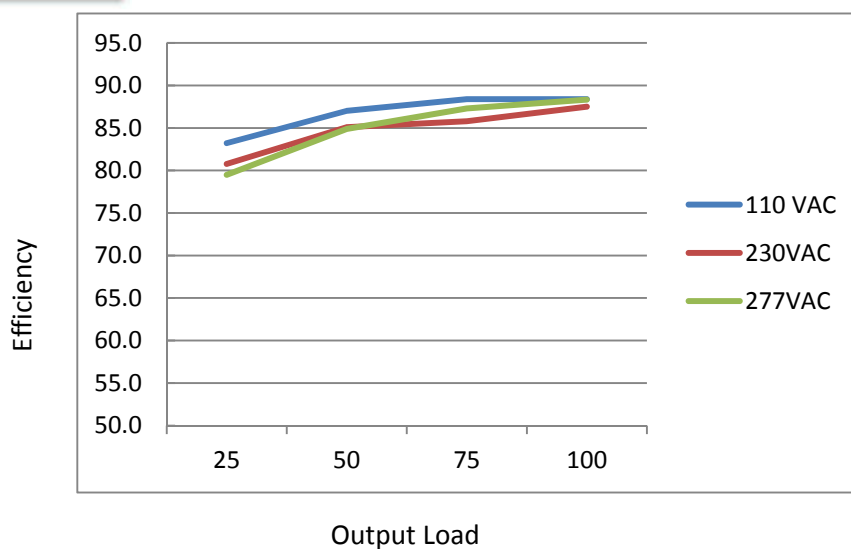




Derating Curve



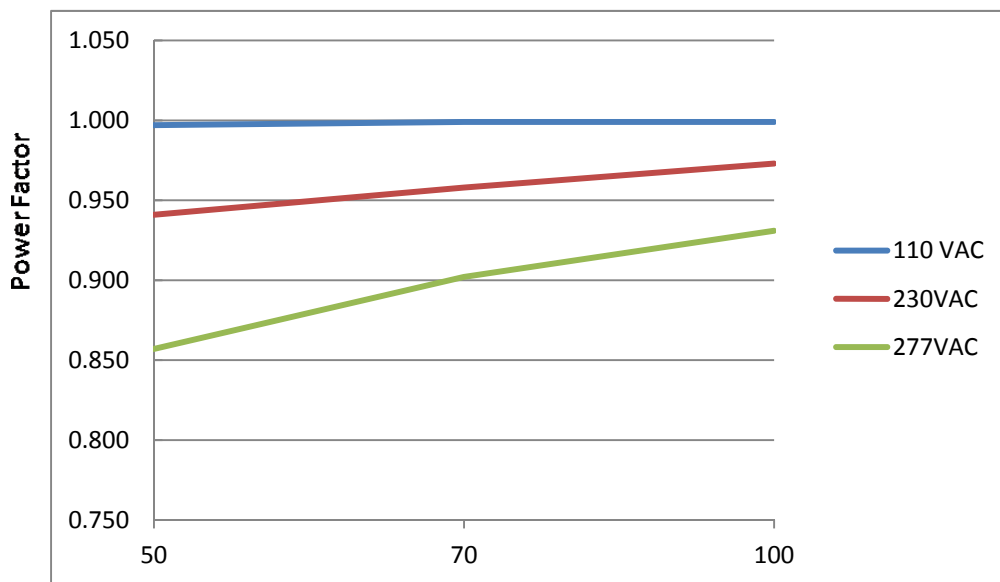
Efficiency vs. Load



54V model



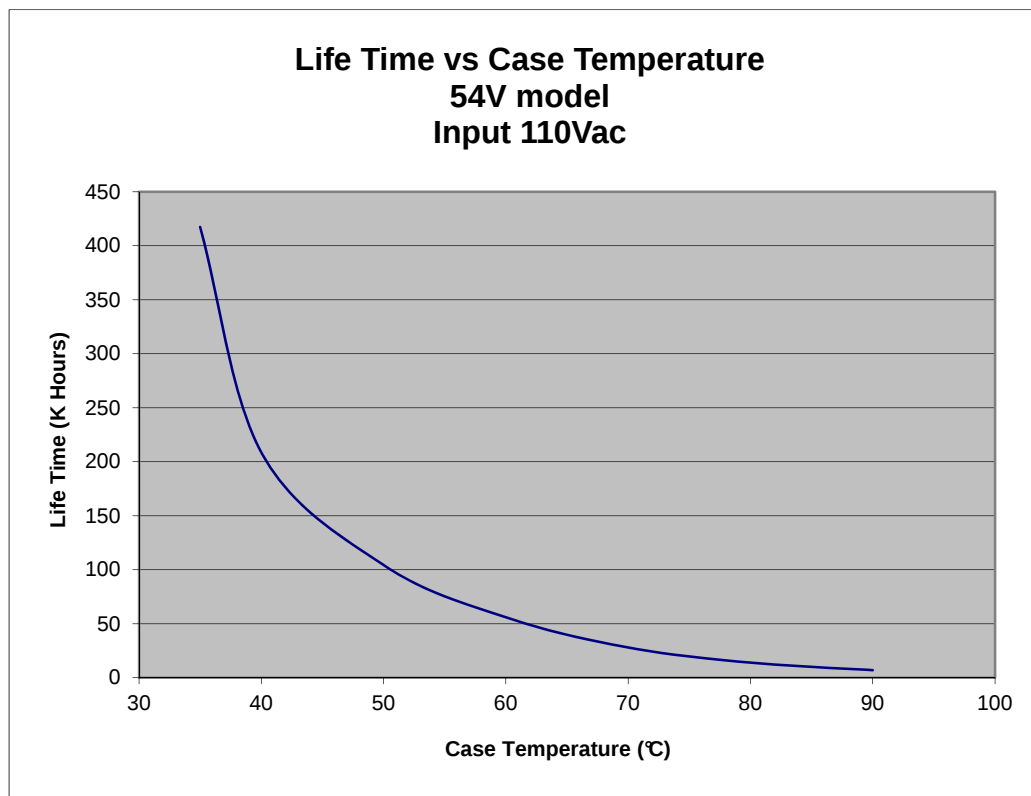
Power Factor Vs. Load

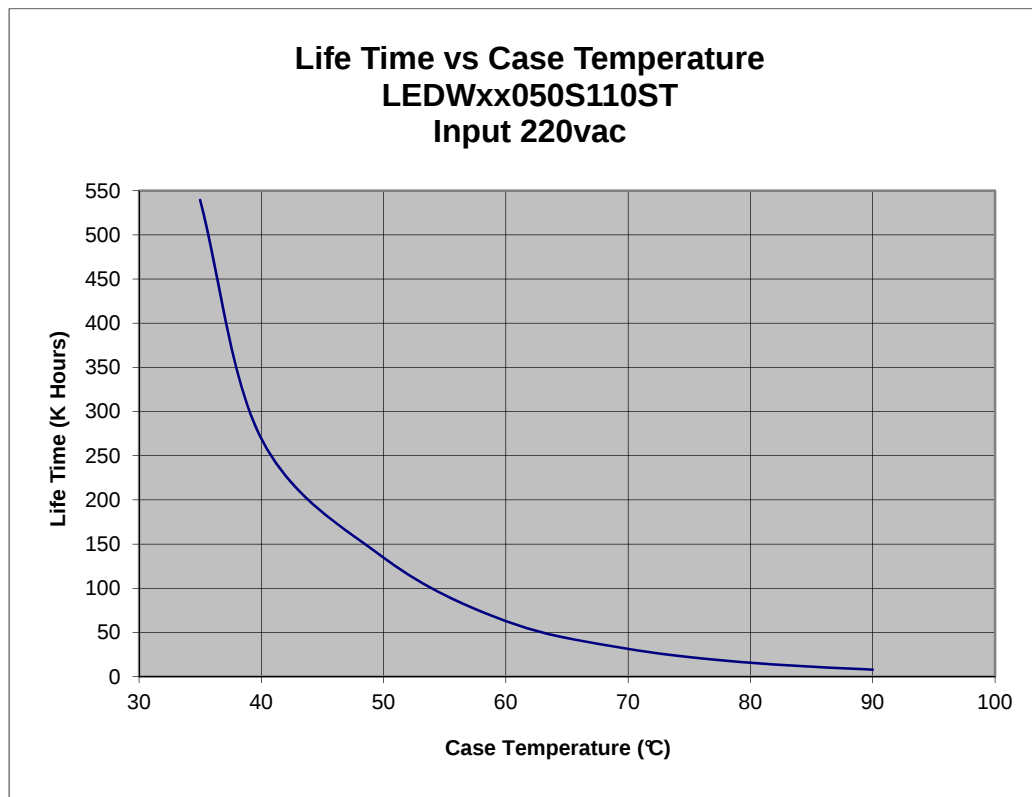


54V model

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
AUTEC IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

