

**FEATURES**

**75W Constant Voltage LED Driver**

**LWV075 Series**

- 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



**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
	LWV075-012S2 (3)	0-5.0A	12 Vdc	60W	87%	89.5%	90%
	LWV075-018S2 (3)	0-4.17A	18 Vdc	75W	88%	89%	90%
	LWV075-024S2 (3)	0-3.13A	24 Vdc	75W	88.5%	90.5%	91%
	LWV075-036S2 (3)	0-2.08A	36 Vdc	75W	88.5%	89.5%	91%
	LWV075-042S3 (4)	0-1.79A	42 Vdc	75W	88.5%	89.5%	91%
	LWV075-048S3 (4)	0-1.56A	48 Vdc	75W	89%	90%	91%
	LWV075-054S3 (4)	0-1.39A	54 Vdc	75W	89%	90%	91%

<b>Output</b>	<b>Load Regulation</b>	±5%		
	<b>Line Regulation</b>	±2%		
	<b>Turn-on Delay Time</b>	2 sec. (Typ.) Measured at 110Vac input. / 1 sec. (Typ.) Measured at 220Vac input.		
	<b>Ripple &amp; Noise (pk-pk)</b>	3% Vo Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor		
<b>Input</b>	<b>Input voltage</b>	100~277 Vac		
	<b>Frequency Range</b>	50Hz ~60Hz		
	<b>PFC (Typ.) (5)</b>	110Vac	0.99	
		220Vac	0.98	
		270Vac	0.95	
	<b>Inrush Current</b>	75A at 230Vac input, 25°C Cold Start		
	<b>AC Current (Typ.)</b>	1.0 A measured at full load and 100 Vac input / 0.5 measured at full load and 220 Vac input		
<b>THD</b>	< 20% measured at 100-277 Vac, from 75% to 100% Load			
<b>Leakage Current</b>	0.25 mA Measured at 277Vac 60Hz Input			
<b>Protections</b>	<b>Short Circuit</b>	Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	<b>Over Temperature</b>	110°C Maximum temperature of components inside the case (Typ). (Optional)		
	<b>Over Current Protection</b>	135% of Io (Typ.). Hiccup mode, recovers automatically after fault condition is removed		
	<b>Over Voltage</b>	125% of rated voltage (Typ.) Protection: Latch mode		
<b>Environmental</b>	<b>Temperature Range</b>	<b>Operational</b>	- 40°C ~+ 70°C (See Derating Curve)	
		<b>Storage</b>	- 40 ~ +85°C	
	<b>Case Temperature</b>	Max. +90 °C (See Mechanical Drawing for exact location)		
	<b>Humidity</b>	<b>Operational</b>	10% ~ 100% RH	

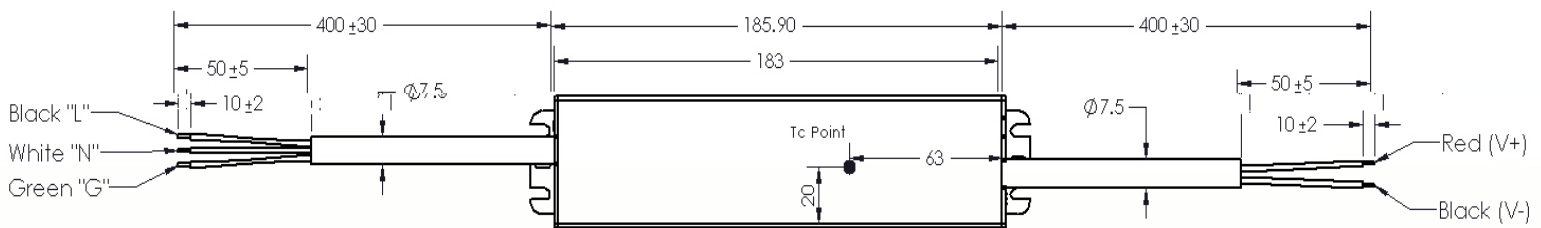


	<b>Storage</b>	5% ~100% R.H
<b>Safety &amp; EMC</b>	<b>Safety Standards</b>	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12 EN61347.1, EN61347-2-13 and EN60529
	<b>EMI Conduction &amp; Radiation</b>	Meet EN55015 FCC Part 15 Class B
	<b>EMS Immunity</b>	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
	<b>Surge</b>	EN61000-4-2 4kV contact discharge (6kV optional available)
<b>Others</b>	<b>MTBF</b>	252,000 hours For 54V output model, measured at 110V input, 80% Load and 25°C ambient temperature (MIL-HDBK-217F)
	<b>Life time</b>	87,000 hours For 54V output model, measured at 220V input, 80% Load and 45°C ambient temperature
	<b>Dimension</b>	Millimeters (L*W*H) 185.9*46.2*32.3
	<b>Weight</b>	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

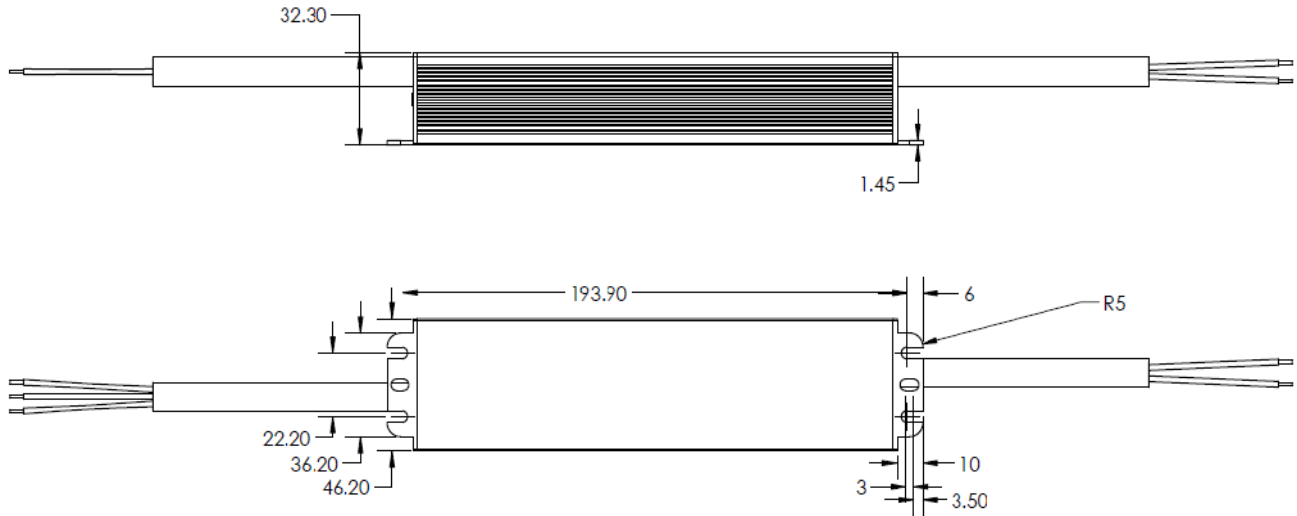
**Mechanical Specification**



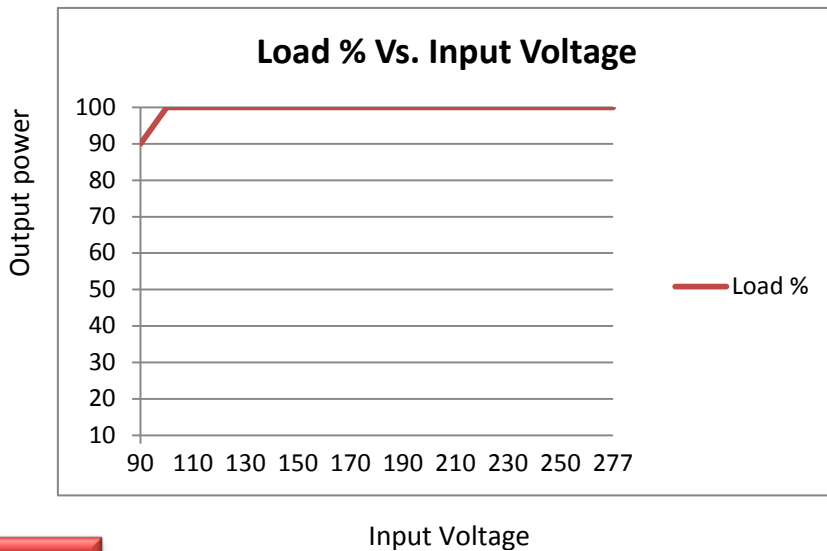
(UL)SJTW 18AWGx3C 105 °C VW-1 300V

(UL)SJTW 18AWGx2C 105 °C VW-1 300V

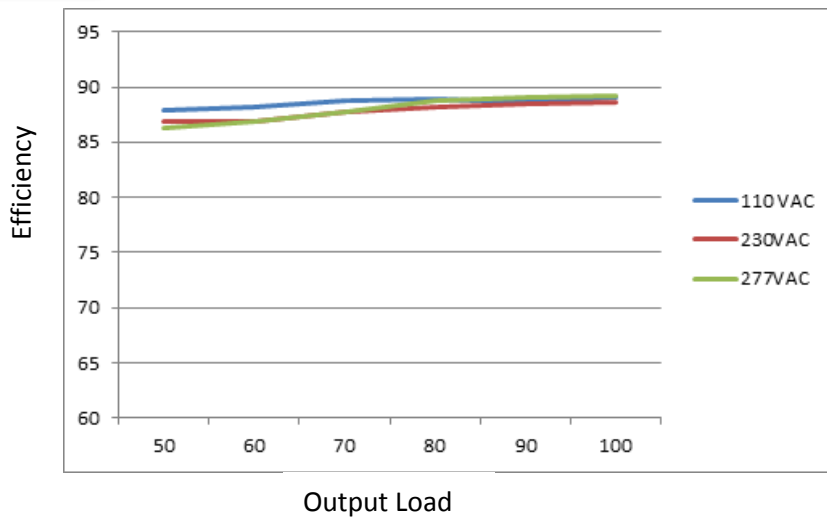




**Derating Curve**



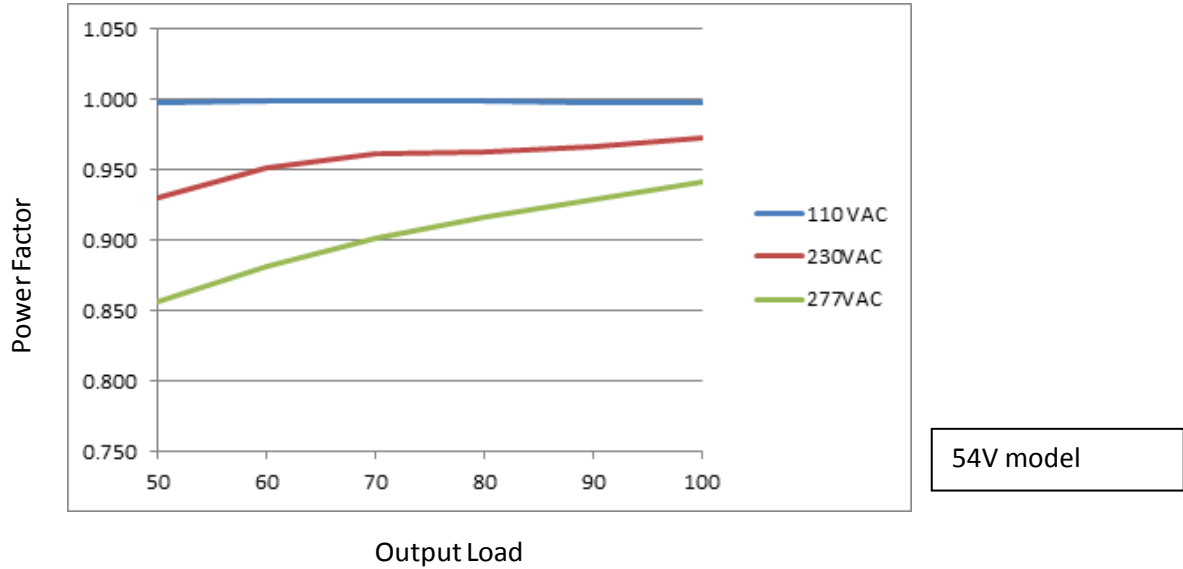
**Efficiency vs. Load**



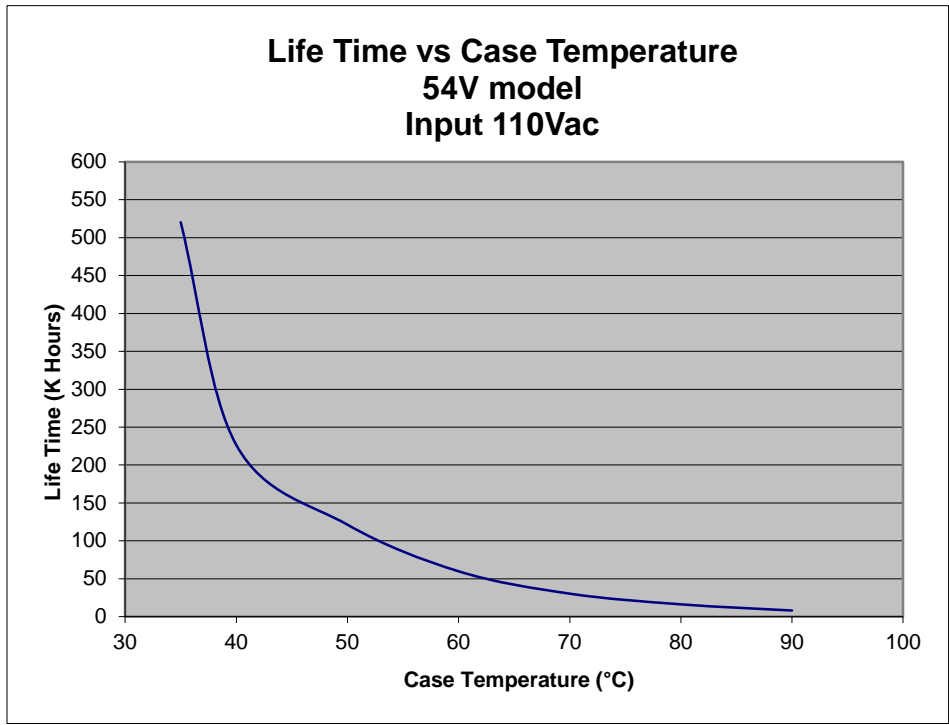
54V model

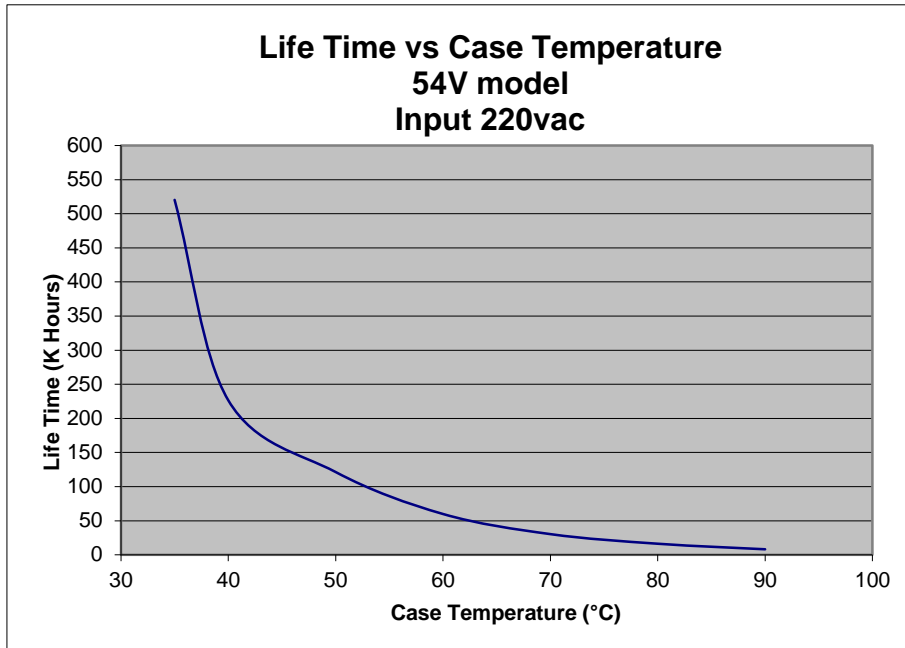


**Power Factor Vs. Load**



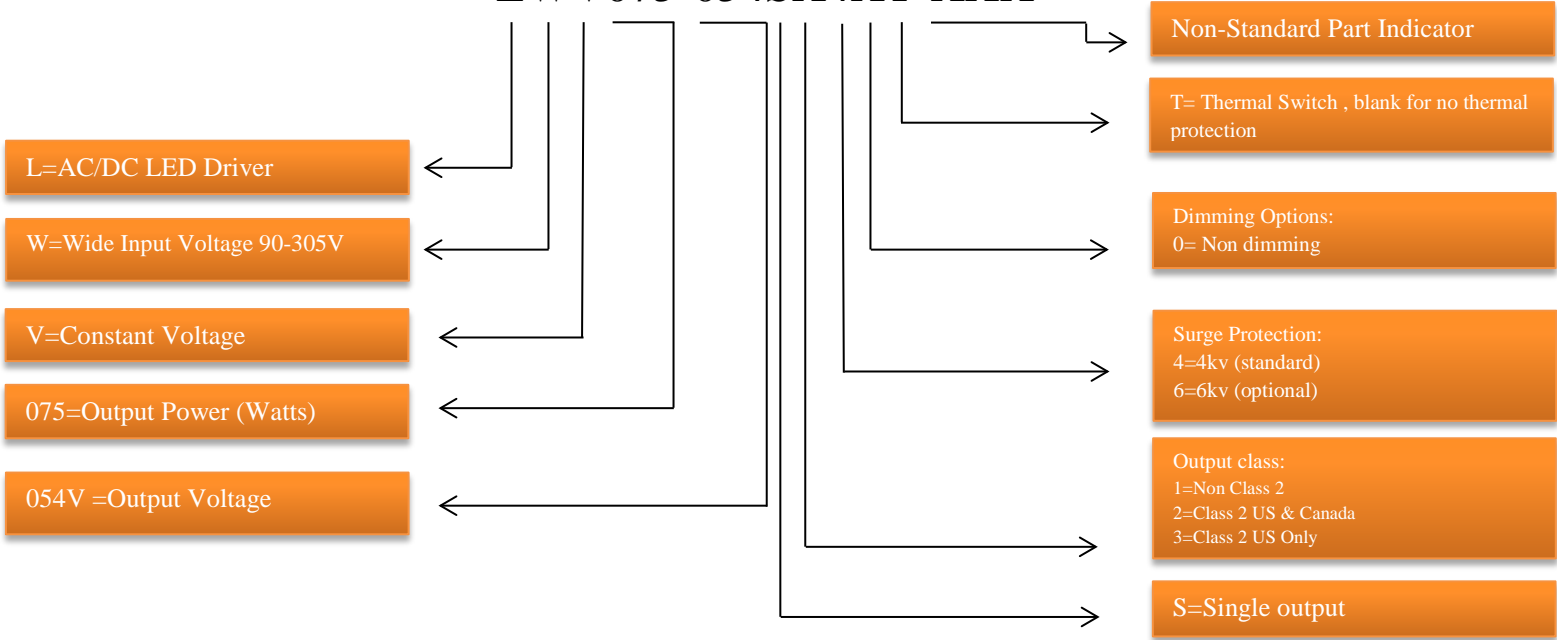
**Life Time Vs. Case Temperature**





## PART NUMBER SCHEME

### LWV075-054SX4XT-XXX



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