

FEATURES

100W Constant Current LED Driver

LWC100 Series

- High Efficiency & High Power Factor – Meets Energy Star & DLC
- 5 Year Warranty
- Long Life Japanese Capacitors
- Over Voltage, Short Circuit, Optional Over Temperature Protection
- Class 2 Output (Some Models)
- Waterproof (IP67), Damp & Wet Location Rated (Some Models)
- Certified to UL8750 & EN61347
- Wide Range Input 90-305 VAC
- RoHS Compliant



SPECIFICATIONS

See Part Number Builder to create your customized part

Model # (1)	Output Current (A)	Voltage Range	Max. Output Power	Efficiency (Typ.)		PF (4) At 277V
				110V	277V	
LWC100-035S1	0.35	186V~286V	100 W	91%	92%	0.90
LWC100-045S1	0.45	144V~222V	100 W	91%	92%	0.90
LWC100-054S1	0.54	120V~185V	100 W	91%	92%	0.90
LWC100-070S1	0.70	93V~143V	100 W	91%	92%	0.90
LWC100-105S1	1.05	62V~95V	100 W	91%	92%	0.90
LWC100-140S1	1.40	47V~72V	100 W	91%	92%	0.90
LWC100-168S3 (3)	1.68	37V~57V	96 W	91%	92%	0.90
LWC100-200S3 (3)	2.0	31V~48V	96 W	91%	92%	0.90
LWC100-234S2 (2)	2.34	27V~41V	96 W	91%	92%	0.90
LWC100-267S2 (2)	2.67	23V~36V	96 W	91%	92%	0.90
LWC100-300S2 (2)	3.0	21V~32V	96 W	91%	92%	0.90
LWC100-343S2 (2)	3.43	18V~28V	96 W	91%	92%	0.90
LWC100-400S2 (2)	4.0	16V~24V	96 W	91%	92%	0.90

Output	Load Regulation	±5%
	Line Regulation	±2%
	Current range	±5%
	Turn-on Delay	0.6 sec. (Typ.) Measured at 110Vac input. / 0.6 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	65A at 230Vac input, 25°C Cold Start
	AC Current (Typ.)	1.5 A measured at full load and 100 Vac input / 0.8 measured at full load and 220 Vac input
	THD	< 20% measured at 100-277 Vac, from 75% to 100% Load
	Leakage Current	0.25 mA Measured at 277Vac 60Hz Input
Protection	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). Auto recovers after cooling (Optional)
	Over Voltage	Latch Mode, recycle AC to restart



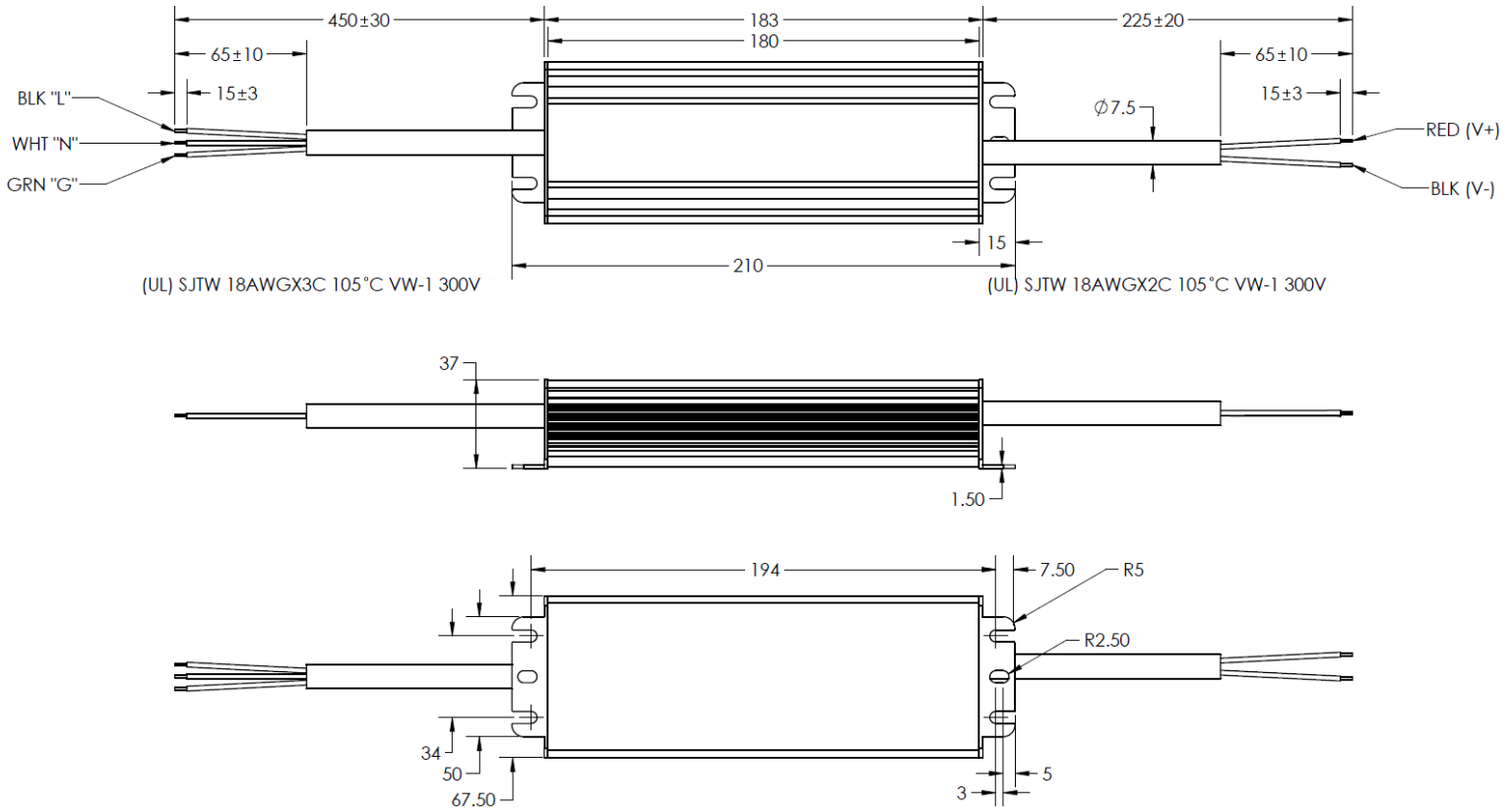
Environmental	Temperature Range	Operational	- 40°C ~+ 70°C (See Derating Curve)
		Storage	- 40 ~ +85°C
	Case Temperature	Max. +90 °C (See Mechanical Drawing for exact location)	
	Humidity	Operational	10% ~ 100% RH
Storage		5% ~100% R.H	
Safety & EMC	Safety Standards	UL8750, Compliance to UL1012 UL1310. 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	415,000 hours	
		For 1400 mA output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)	
	Lifetime	88,000 hours	
		For 1400 mA output model, measured at 220V input, 80%Load and 45°C ambient temperature	
	Dimensions	Millimeters (L*W*H) 183*67.5*35mm	
Weight	1000g		

Notes:

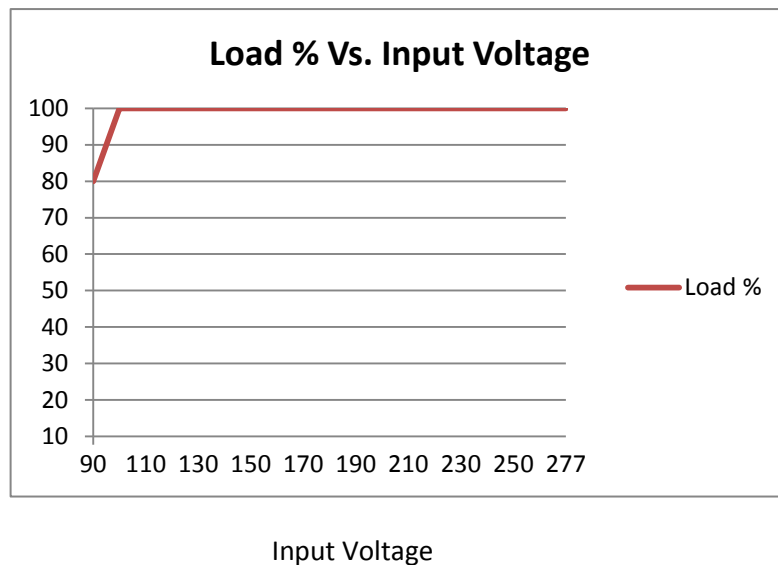
1. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
2. Class 2 output for USA & Canada.
3. Class 2 output for USA only.
4. Minimum @ 277Vac and 70% load
5. If not specified all measurement done at full load and 230 Vac input.



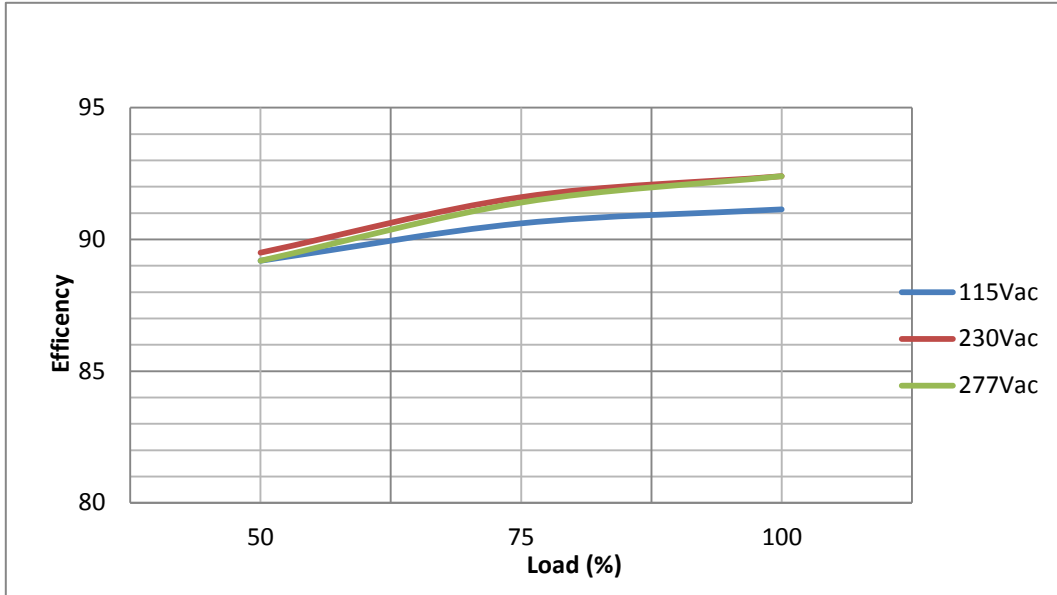
Mechanical Specifications



Derating Curve

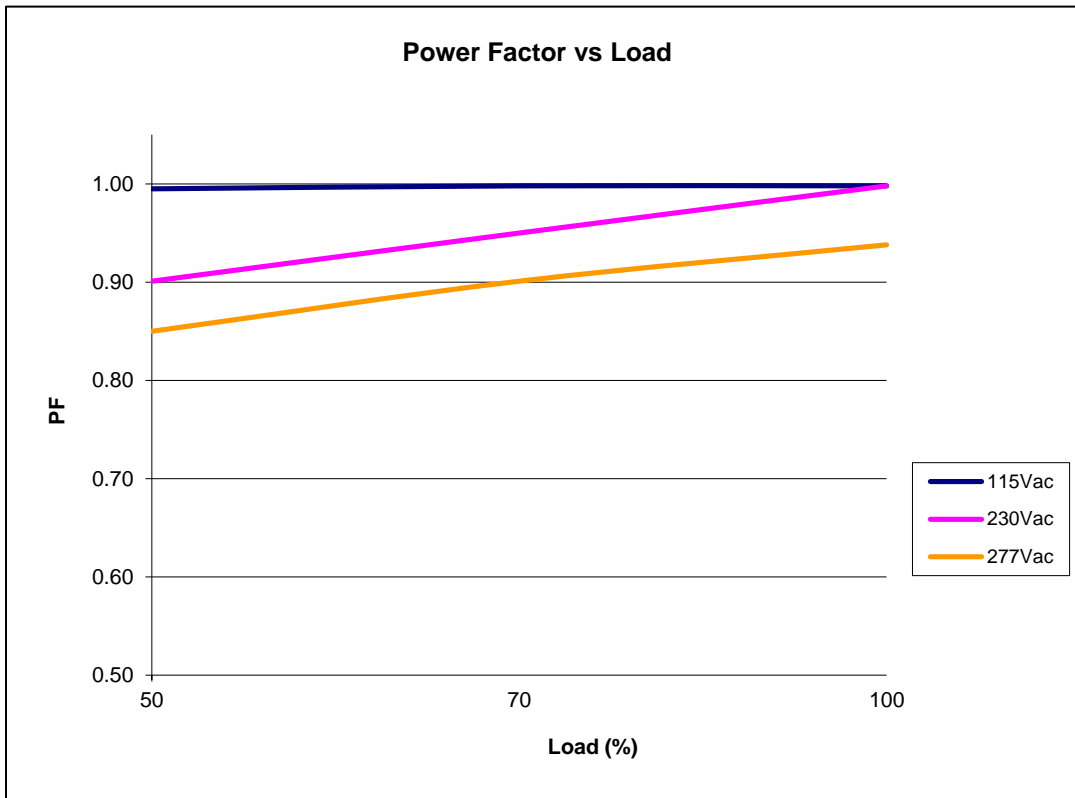


Efficiency vs. Load



1400mA model

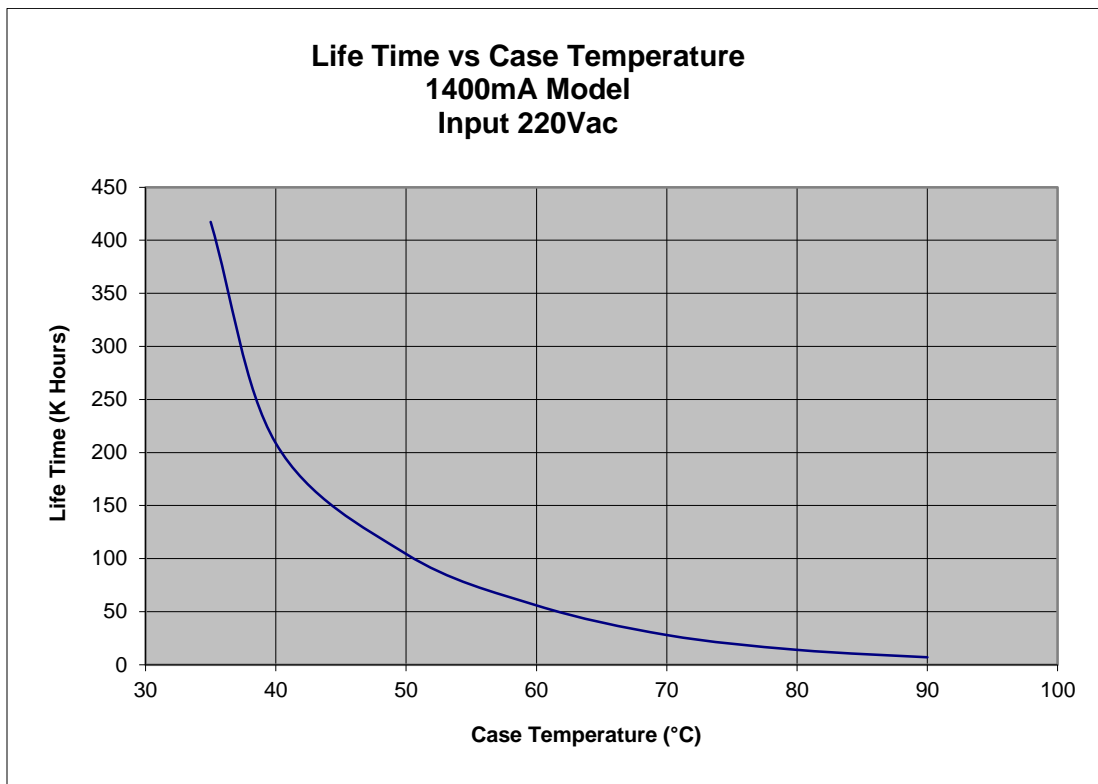
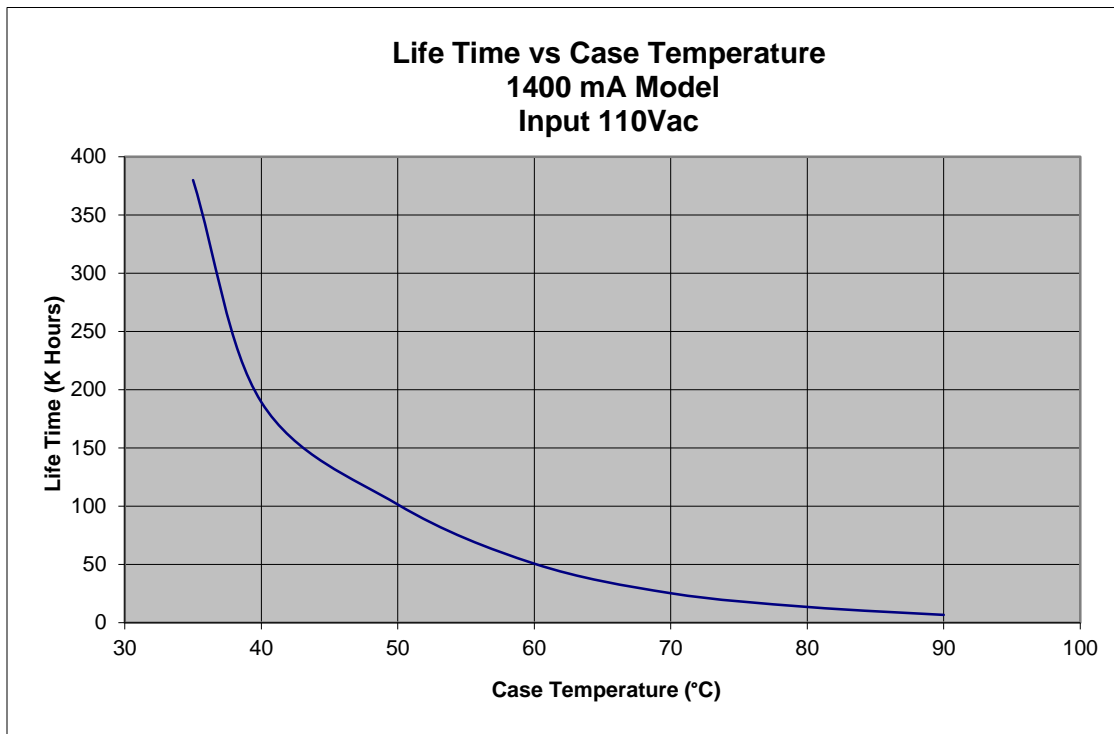
Power Factor Vs. Load



1400mA model

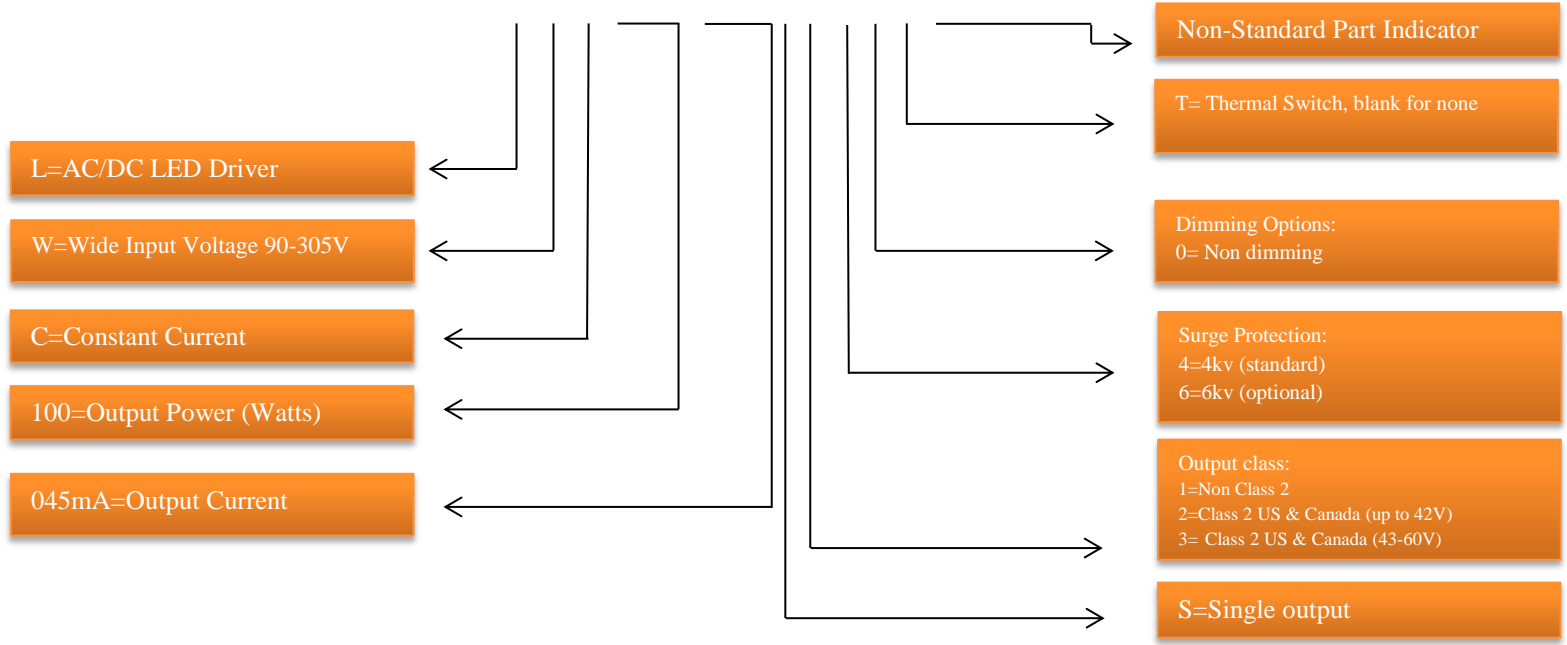


Life Time Vs. Case Temperature



PART NUMBER SCHEME

LWC100-045SX40T-XXX



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