

**FEATURES**

**100W Constant Voltage LED Driver**

**LWV100 Series**

- High Efficiency & High Power Factor
- 5 Years Warranty
- Over Voltage, Short Circuit, Optional Over Temperature Protection
- Waterproof (IP67)
- Complies with UL8750 & EN61347
- Wide Range Input 90-305 VAC
- RoHS Compliant



**SPECIFICATION**

See Part Number Builder to create your customized part	Model # (1)	Output Range (A)	Output Voltage	Max. Output Power	Efficiency (Typ.)		
					At 110V	At 220V	At 277V
	LWV100-012S1	0-8.0A	12V	96 W	91%	92%	92%
	LWV100-024S2 (2)	0-4.0A	24V	96 W	91%	92%	92%
	LWV100-036S2 (2)	0-2.67A	36V	96 W	91%	92%	92%
	LWV100-042S3 (3)	0-2.29A	42V	96 W	91%	92%	92%
	LWV100-048S3 (3)	0-2.0A	48V	96 W	91%	92%	92%
	LWV100-054S3 (3)	0-1.78A	54V	96 W	91%	92%	92%
	LWV100-105S1	0-0.95A	105V	100 W	91%	92%	92%

<b>Output</b>	<b>Load Regulation</b>	±5%		
	<b>Line Regulation</b>	±2%		
	<b>Turn-on Delay Time</b>	0.6 sec. (Typ.) Measured at 110Vac input. / 0.6 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.) (4)</b>	110Vac	0.99	
		220Vac	0.99	
		270 Vac	0.93	
	<b>Inrush Current</b>	65A at 230Vac input, 25°C Cold Start		
	<b>AC Current (Typ.)</b>	1.5 A measured at full load and 100 Vac input / 0.8 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 I <sub>o</sub> (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>Operational</b>	10% ~ 100% RH	

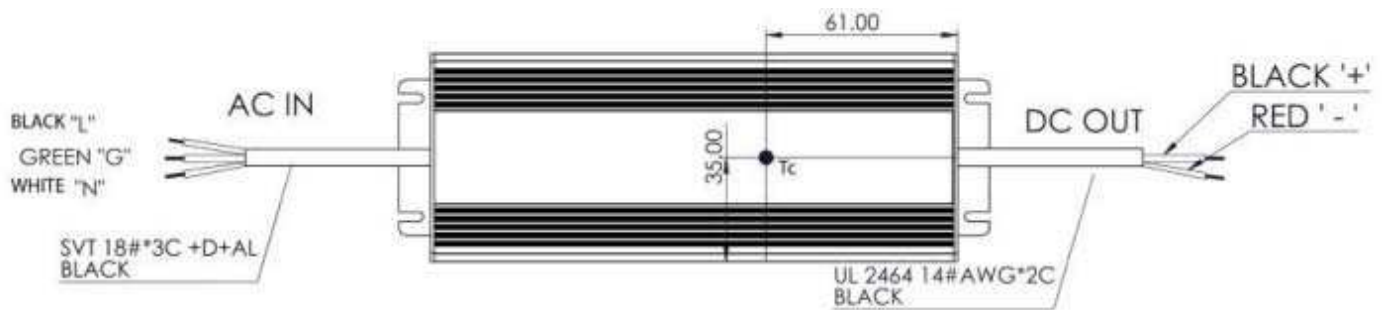


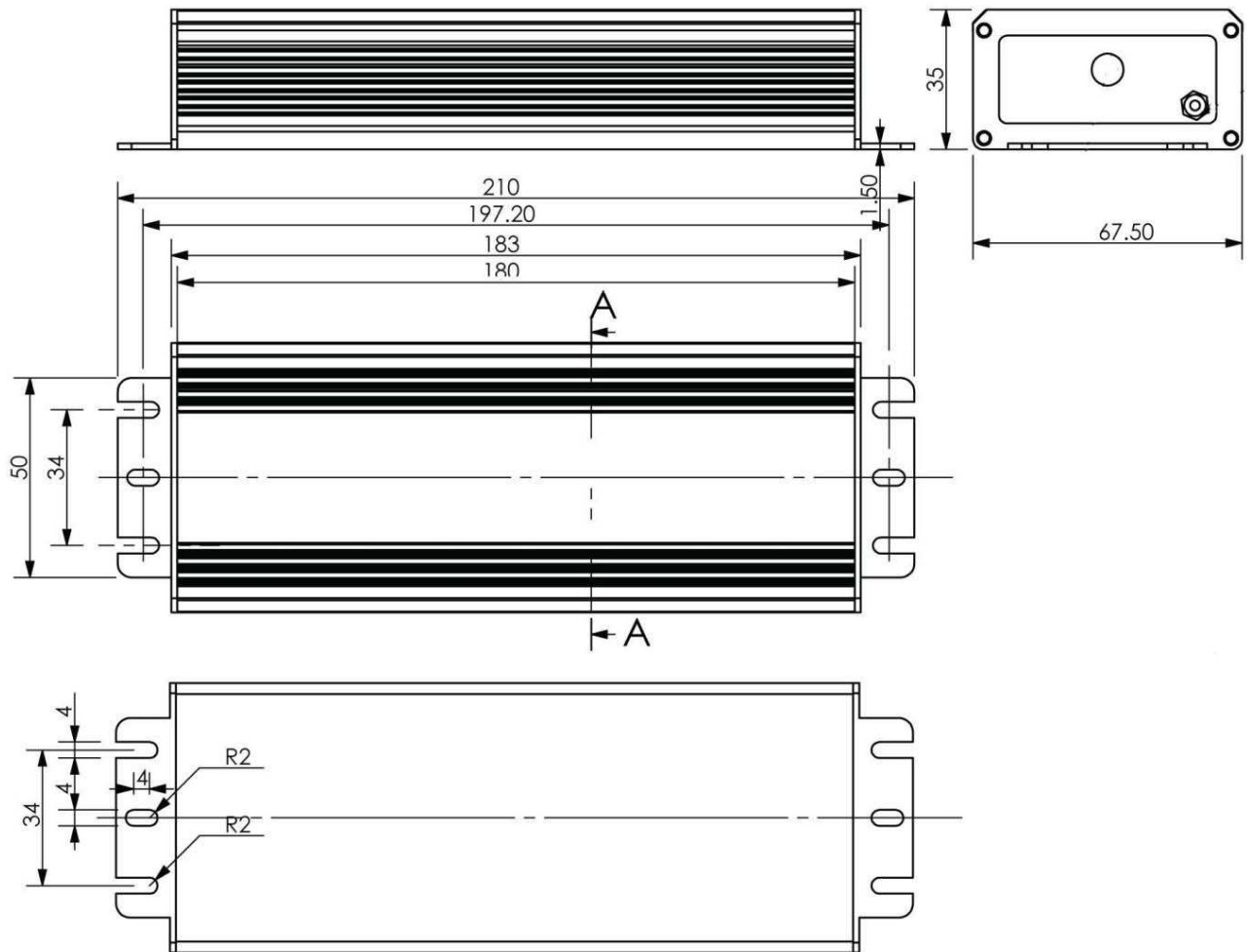
	Humidity	Storage	5% ~100% R.H
Safety & EMC	Safety Standards	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12 EN61347.1, EN61347-2-13 and EN60529	
	EMI Conduction & Radiation	Meet EN55015 FCC Part 15 Class B	
	EMS Immunity	EN 61000-3-2, EN 61000-3-3, 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)	
	Life time	88,000 hours For 1400 mA output model, measured at 220V input, 80%Load and 45°C ambient temperature	
	Dimension	Millimeters (L*W*H) 183*67.5*35	
	Weight	1000g	

**Notes:**

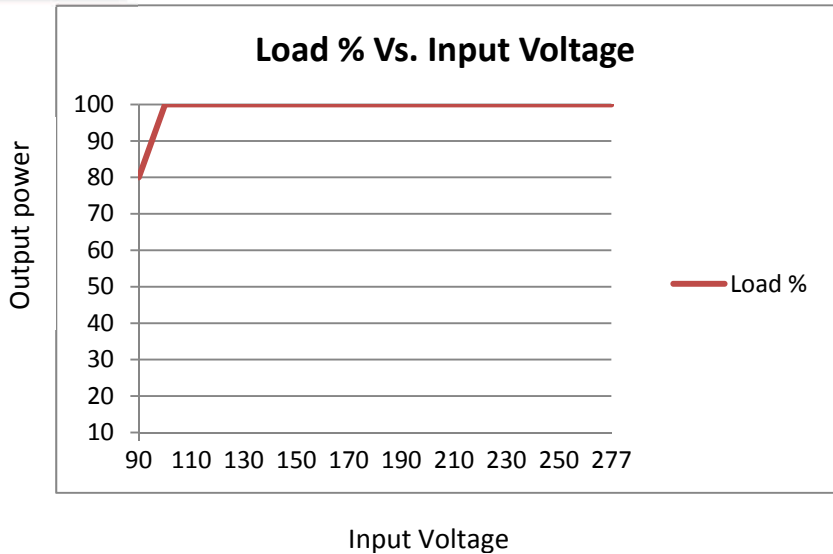
1. A suffix-xxx may be added to denote variations or modifications to the base product, where x can be any alphanumeric character or blank.
2. Class 2 output for USA & Canada.
3. Class 2 output for USA only, non-class 2 for Canada.
4. Power Factor Correction measured at full load
5. If not specified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

**Mechanical Specification**

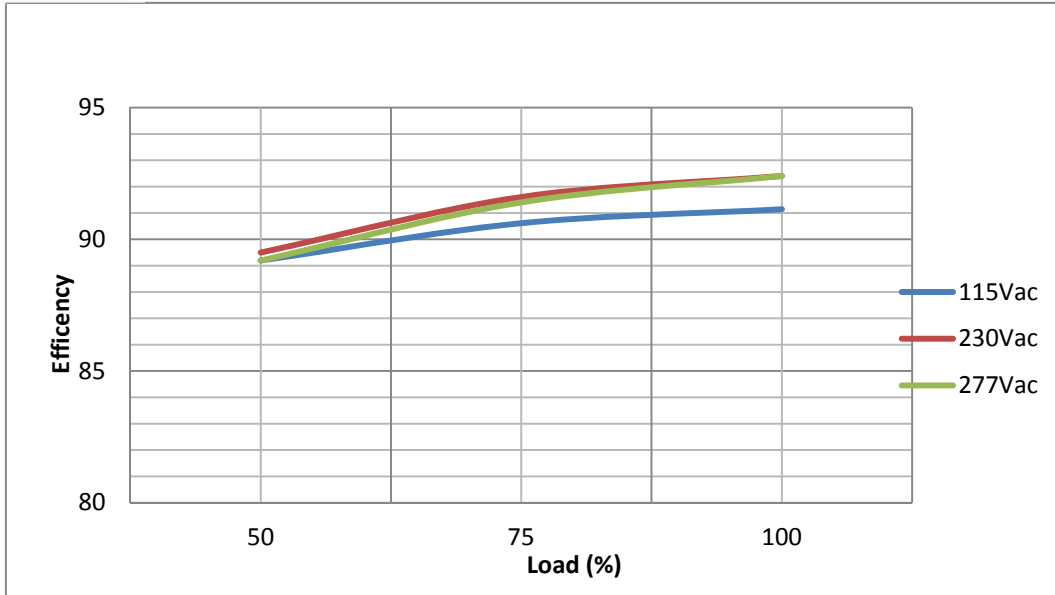




**Derating Curve**

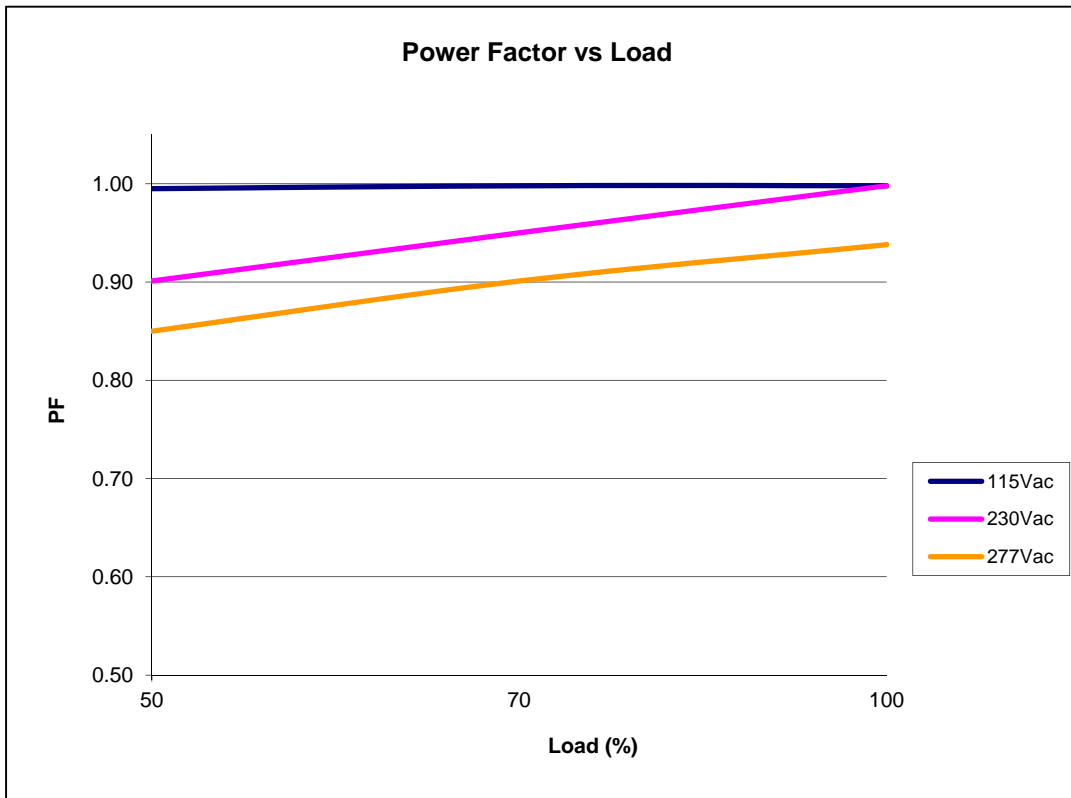


Efficiency vs. Load



54V model

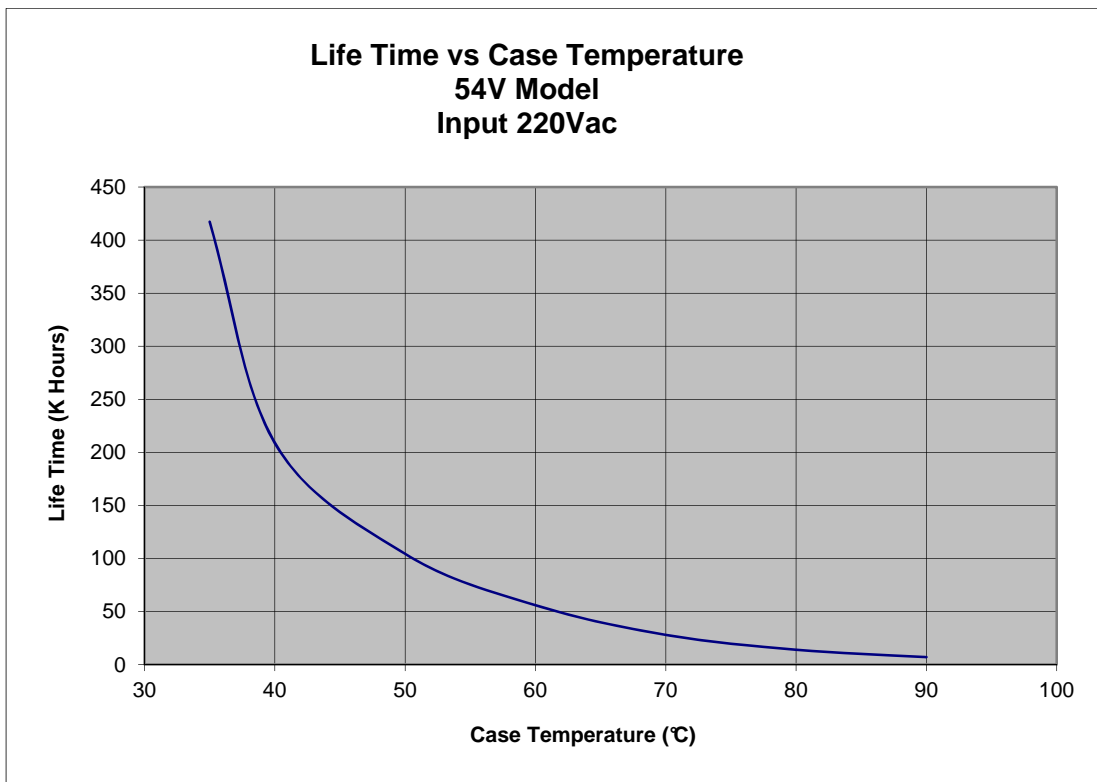
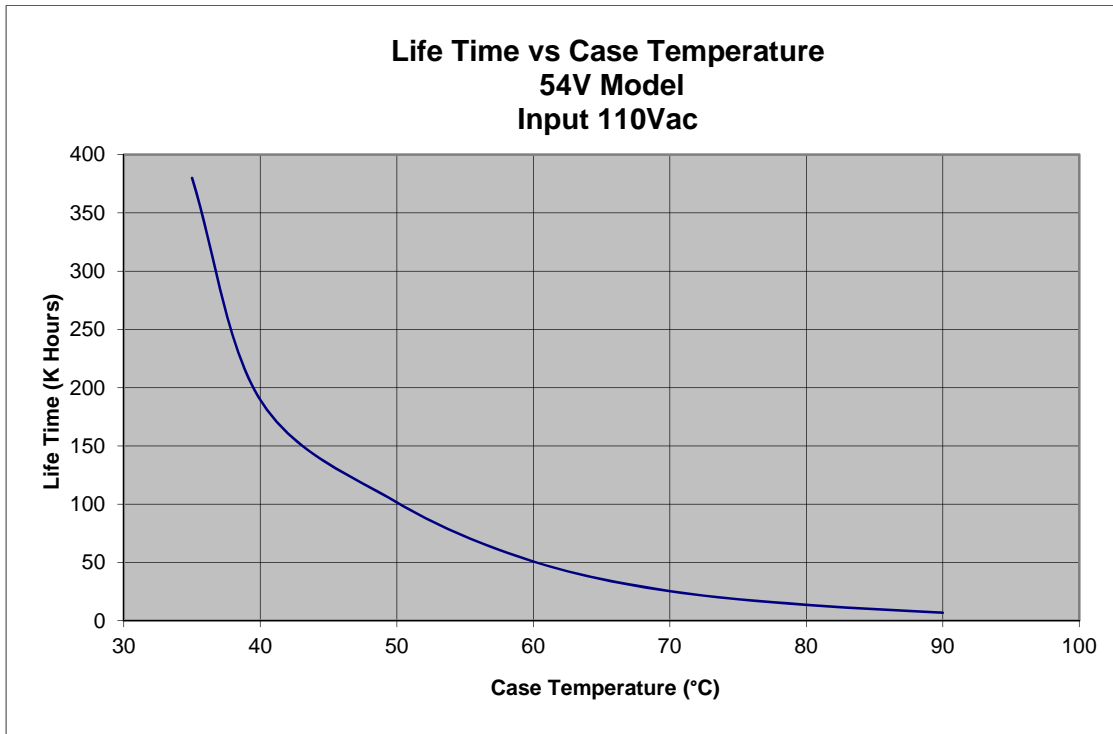
Power Factor Vs. Load



54V model

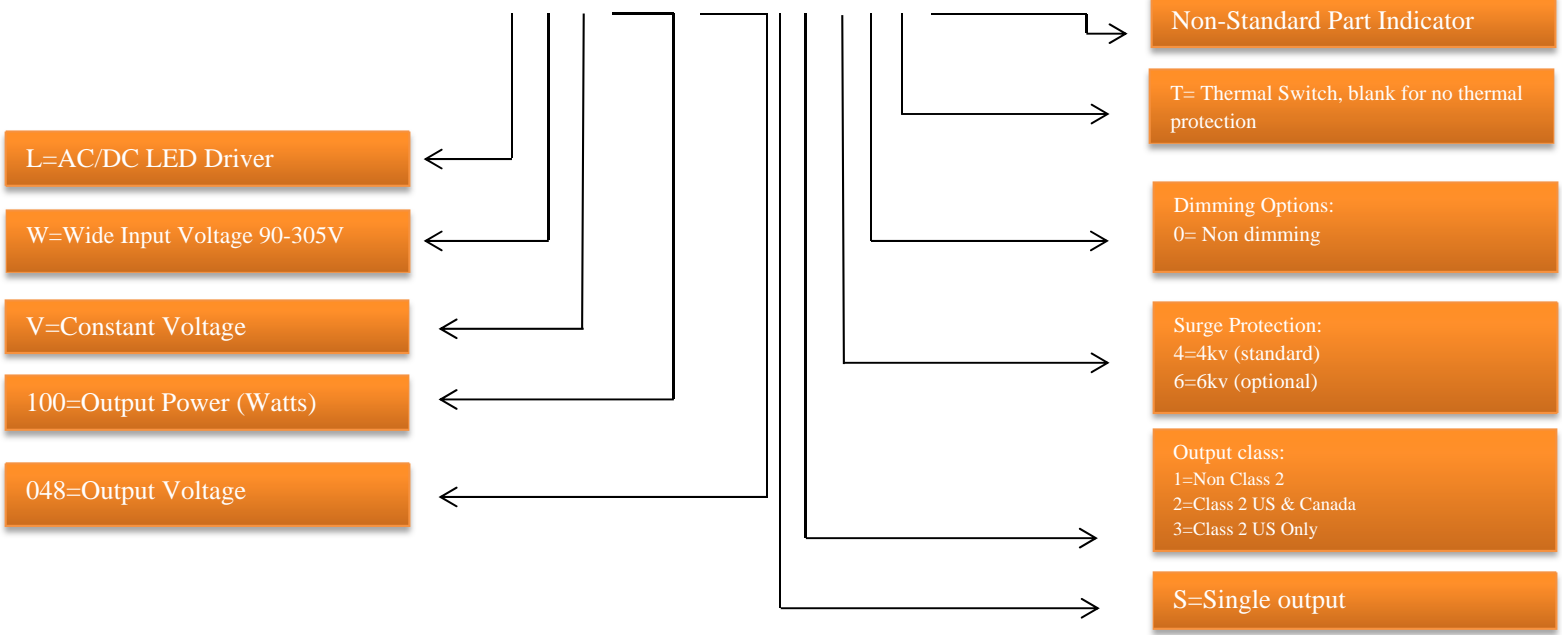


Life Time Vs. Case Temperature



**PART NUMBER SCHEME**

**LWV100-048SX4XT-XXX**



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