

■ Features

- Power Rating: 100W
- Input Voltage: 100-277Vac
- Constant voltage design
- Fixed output current(350mA-4000mA)
- Efficiency to 92%
- UL Class 2(some models)
- SCP, OTP, and OVP
- IP67
- 5-year warranty
- Surge Immunity: 4kV contact discharge (6kV optional)
- Sign Components Manual (SAM)



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- Indoor and outdoor applications

■ Model List*(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency
LWV100-012S140T	100~277Vac	100W	12V	0mA	8000mA	91%@110V 92%@220V 92%@270V
LWV100-024S240T*	100~277Vac	100W	24V	0mA	4000mA	91%@110V 92%@220V 92%@270V
LWV100-036S240T*	100~277Vac	100W	36V	0mA	2670mA	91%@110V 92%@220V 92%@270V
LWV100-042S340T**	100~277Vac	100W	42V	0mA	2290mA	91%@110V 92%@220V 92%@270V
LWV100-048S340T**	100~277Vac	100W	48V	0mA	2000mA	91%@110V 92%@220V 92%@270V
LWV100-054S340T**	100~277Vac	100W	54V	0mA	1780mA	91%@110V 92%@220V 92%@270V
LWV100-105S140T	100~277Vac	100W	105V	0mA	950mA	91%@110V 92%@220V 92%@270V

■ Technical Data

Load Regulation	±5%
Line Regulation	±2%
Turn-on Delay time	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 voltage range	100~277Vac
Frequency	50~60Hz
Power Factor	0.99@110Vac, 0.99@220Vac, 0.93@270Vac
Inrush current	65A at 230Vac input, 25°C Cold Start
AC Current (Typ.)	1.5A measured at full load and 100Vac input / 0.8 measured at full load and 220Vac input
THD	< 20% measured at 100-277Vac, from 75% to 100% Load
Leakage current	0.25 mA Measured at 277Vac 60Hz Input
Short circuit protection	Protection type: hiccup mode, recovers automatically after fault condition is removed
Over temperature protection	110°C Maximum temperature of components inside the case Auto recovers after cooling (Optional)
Over voltage protection	125% of rated voltage (Typ.) Protection: Latch mode
Operating temperature	-40 ~ +70°C
Storage temperature	-40 ~ +85°C
Maximum case Temperature	90°C (See Mechanical Drawing for exact location)
Humidity operational	10% ~ 100%RH
Humidity storage	5% to 100%RH
MTBF	415,000 hours For 54V output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Life rating	88,000 hours For 54V output model, measured at 220V input, 80%Load and 45°C ambient temperature
Length (L)	7.2" (183mm)
Width (W)	2.65" (67.5mm)
Height (H)	1.37" (35mm)
Weight	1000g

Notes:

1. Unless specified, all the test results are measured in the 25°C ambient temperature.
2. *Class 2 Output (US & Canada).
3. **Class 2 output for USA only, non-class 2 for Canada.

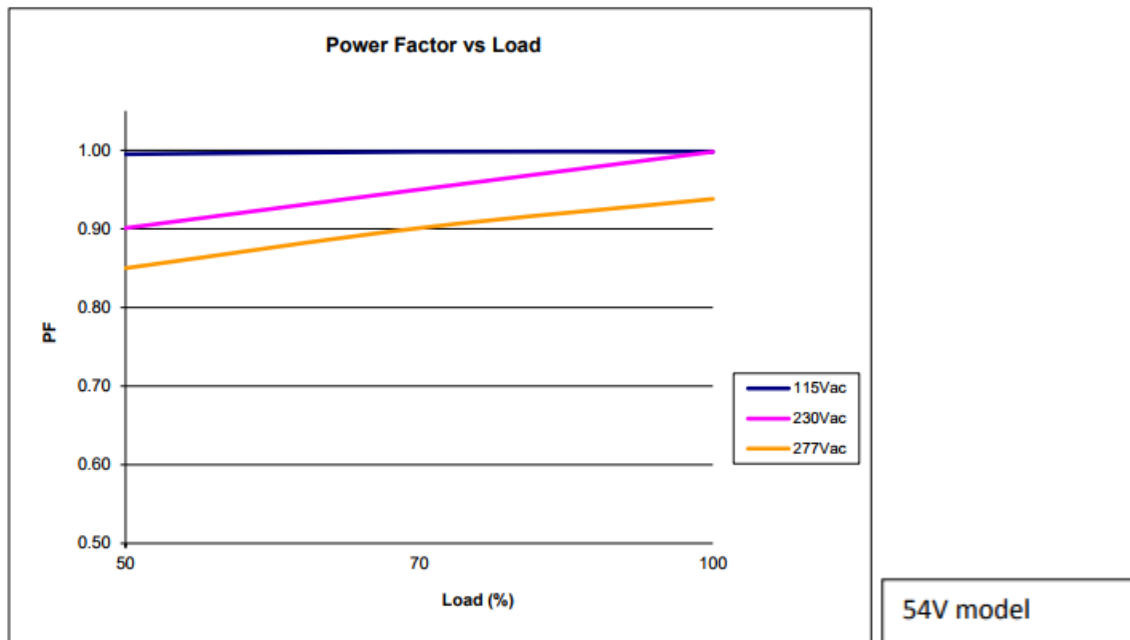
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4. Power factor correction measured at full load

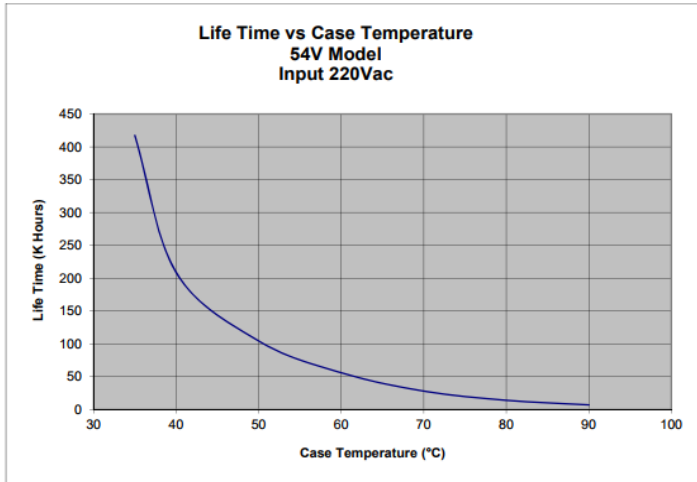
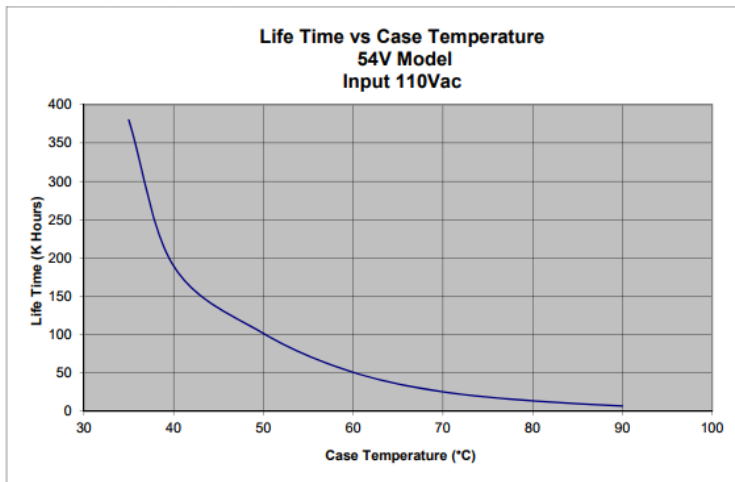
■ Safety Compliance

Safety Standard	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)

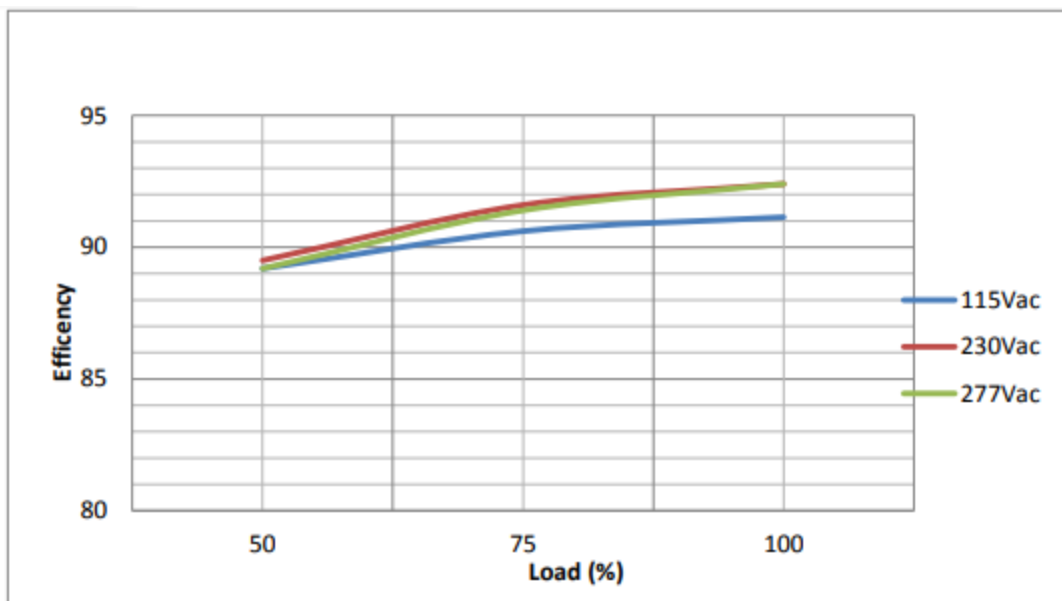
■ Power Factor vs Load



■ Lifetime vs Case Temperature

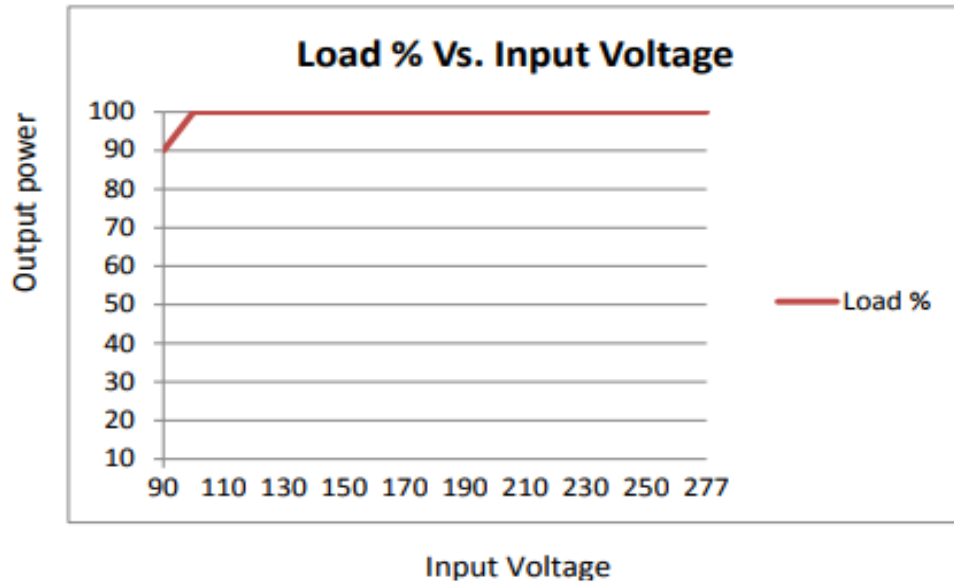


■ Efficiency vs Load

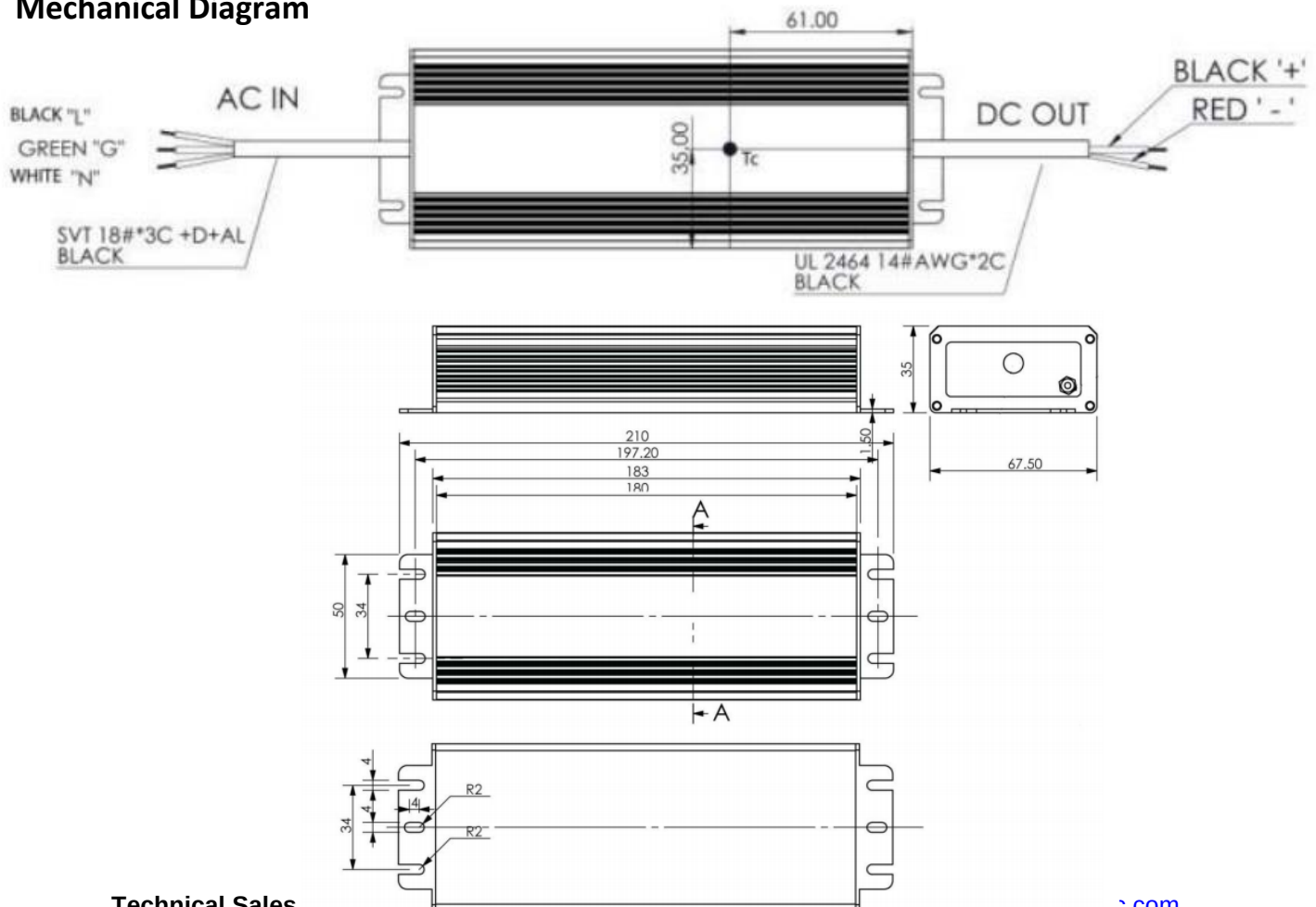


54V model

Derating Curve



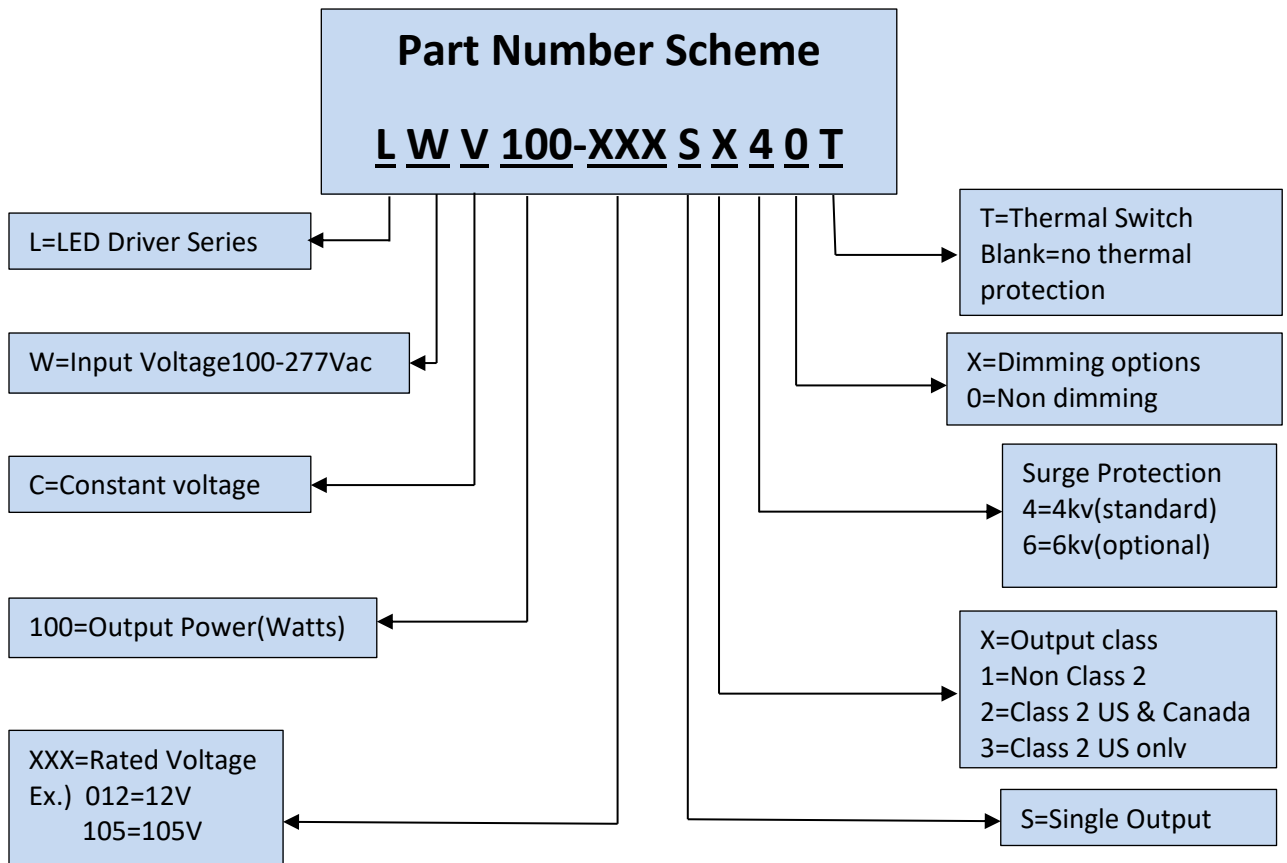
Mechanical Diagram



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