

■ Features

- Power Rating: 60-96W
- Input Voltage: 100-277Vac
- Constant voltage design
- Adjustable output current(0mA-8000mA)
- Efficiency to 94%
- UL Class 2(some models)
- SCP, OTP, OVP and Overload protection
- IP65 & IP67
- 5-year warranty
- Surge Immunity: Line to line 2 kV, line to earth 4 kV; 8 kV air discharge, 4 kV contact discharge
- 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
LWx060-012SXV	100~277Vac	60W	x-12V	0mA	5000mA	89%@110V 90%@220V 90%@270V
LWx096-012SXV	100~277Vac	96W	x-12V	0mA	8000mA	90%@110V 91%@220V 91%@270V
LWx096-024SXV	100~277Vac	96W	13-24V	0mA	4000mA	91%@110V 92%@220V 92%@270V
LWx096-036SXV	100~277Vac	96W	x-36V	0mA	2660mA	92%@110V 93%@220V 93%@270V
LWx096-042SXV	100~277Vac	96W	x-42V	0mA	2280mA	93%@110V 94%@220V 94%@270V
LWx096-048SXV	100~277Vac	96W	x-48V	0mA	2000mA	93%@110V 94%@220V 94%@270V
LWx096-054SXV	100~277Vac	96W	x-54V	0mA	1770mA	93%@110V 94%@220V 94%@270V

(x=Case Type: P=Plastic, S=Metal)

■ Technical Data

Load Regulation	5%
Line Regulation	1%
Turn-on Delay time	2.0 sec. (Typ.) Measured at 110Vac input. / 1 sec. (Typ.) Measured at 220Vac input

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

■ Technical Data(cont.)

Ripple & Noise (pk-pk)	5% Vo Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor
Overshoot/Undershoot	10% (Max.)
Dynamic Response	Output Deviation : 5% Vo (Max.), Settling Time : 10mS
Input voltage range	100~277Vac
Frequency	47~63Hz
Power Factor	0.99@110Vac, 0.96@220Vac
Inrush current	65A at 230Vac input, 25°C Cold Start
AC Current (Typ.)	1.5A measured at full load and 100 Vac input / 0.8A at 220Vac input 25°C cold start (Typ.)
THD	< 20% measured at 100-277 Vac, from 75% to 100% Load
Leakage current	0.25mA 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	135% of Vo, Protection type: Latch mode, recycle AC to restart after fault condition is removed, no damage to power supply
Overload protection	105% Io (Max.) Protection type: Latch mode, recycle AC to restart after fault condition is removed
Operating temperature	-30 ~ +70°C
Storage temperature	-40 ~ +80°C
Maximum case Temperature	90°C (12V model is 80°C)
Humidity operational	10% ~ 100%RH
Humidity storage	5% to 100%RH
MTBF	487,000 Hours measured at 110Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Life rating	68,000 Hours measured at 220Vac input, 80%Load and 45°C ambient temperature
Length (L)	See mechanical drawings
Width (W)	See mechanical drawings
Height (H)	See mechanical drawings
Weight	1.2lbs(Plastic)

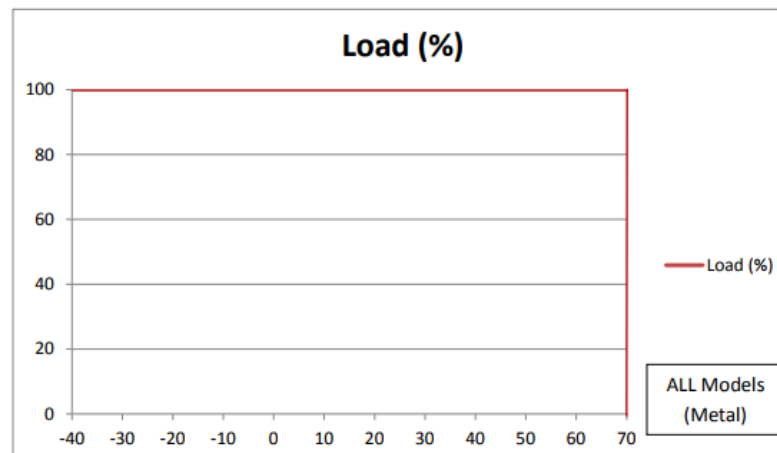
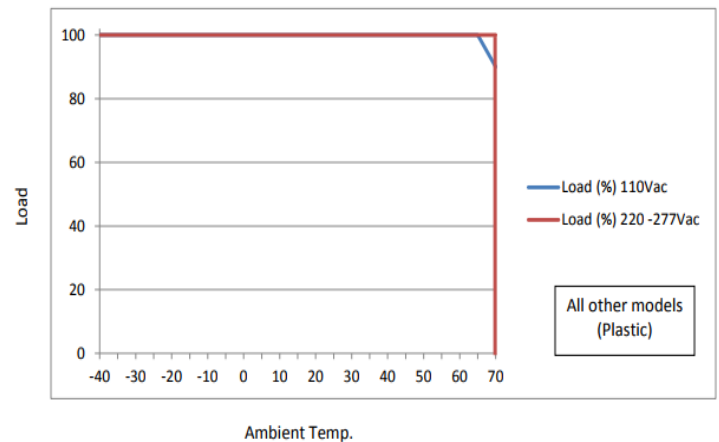
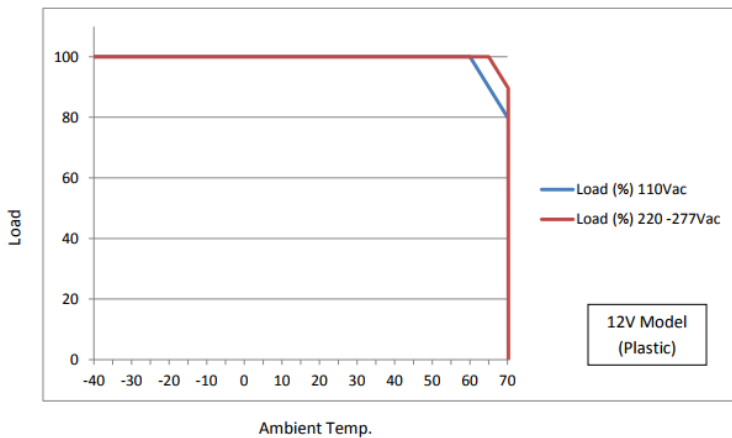
Notes:

1. Unless specified, all the test results are measured in the 25°C ambient temperature.

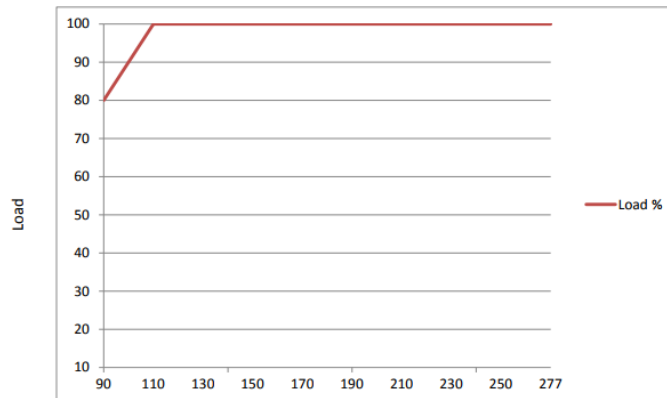
■ Safety Compliance

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 8 kV air discharge, 4 kV contact discharge

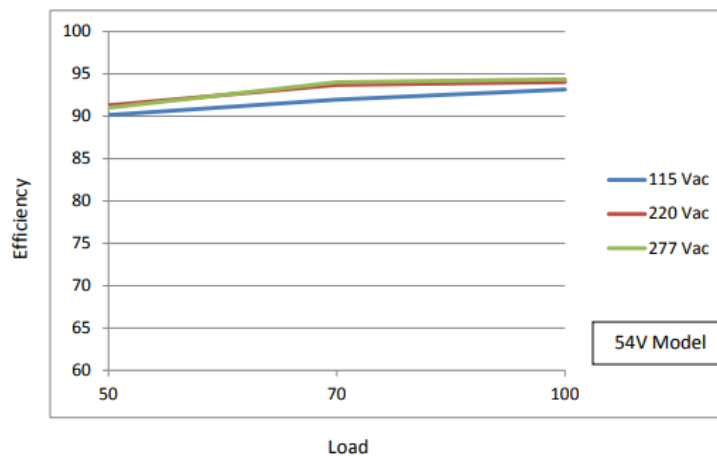
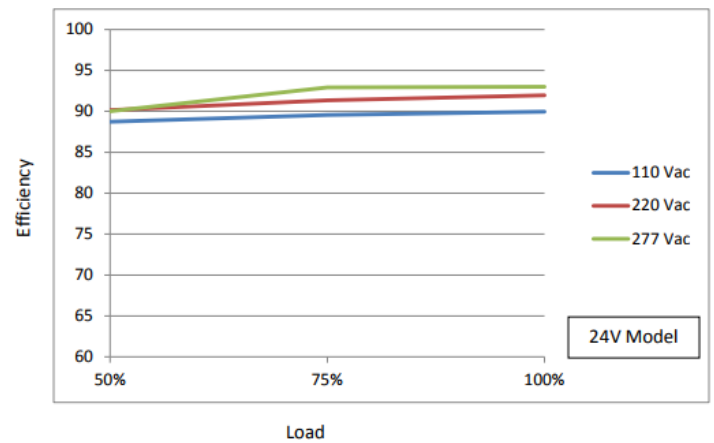
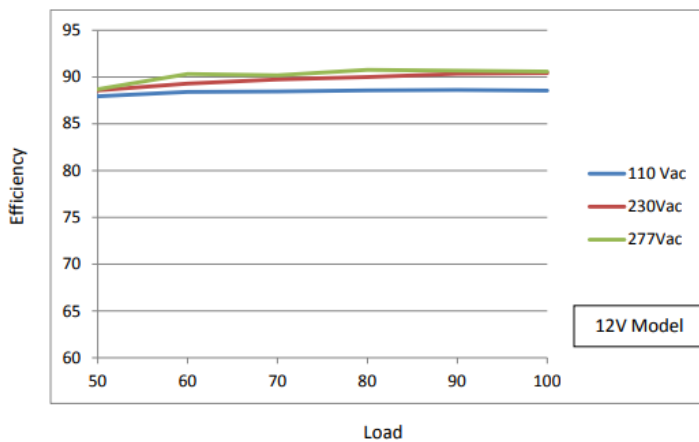
■ Derating Curve vs. Ambient Temperature



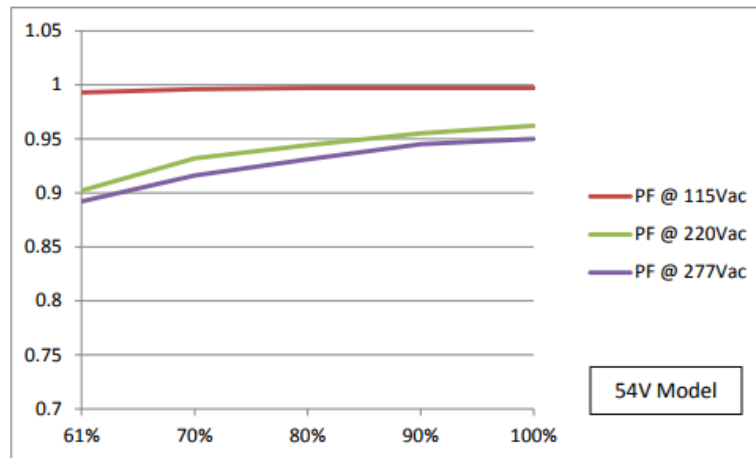
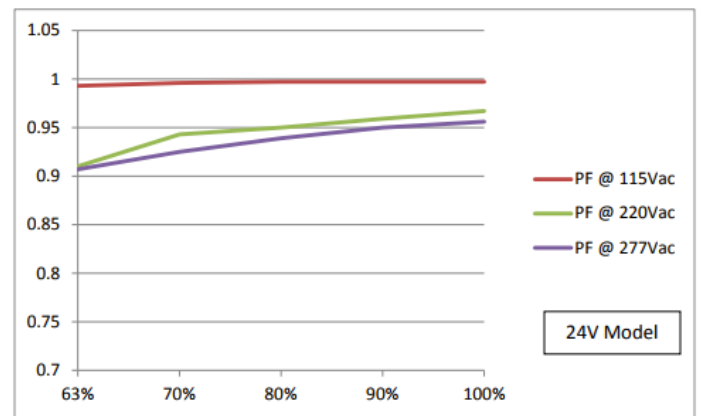
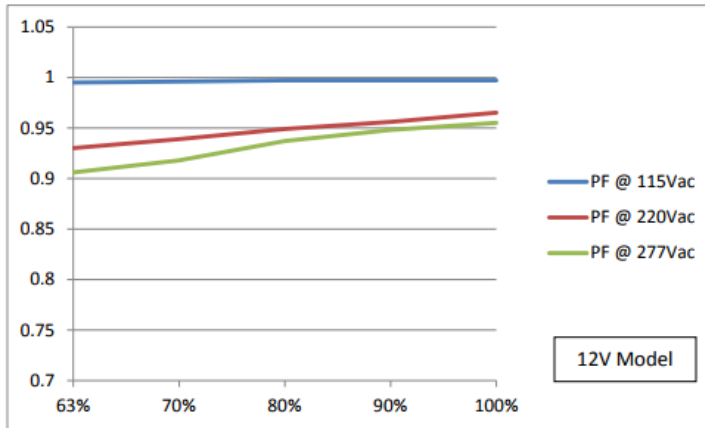
■ Derating Curve Load vs Input Voltage



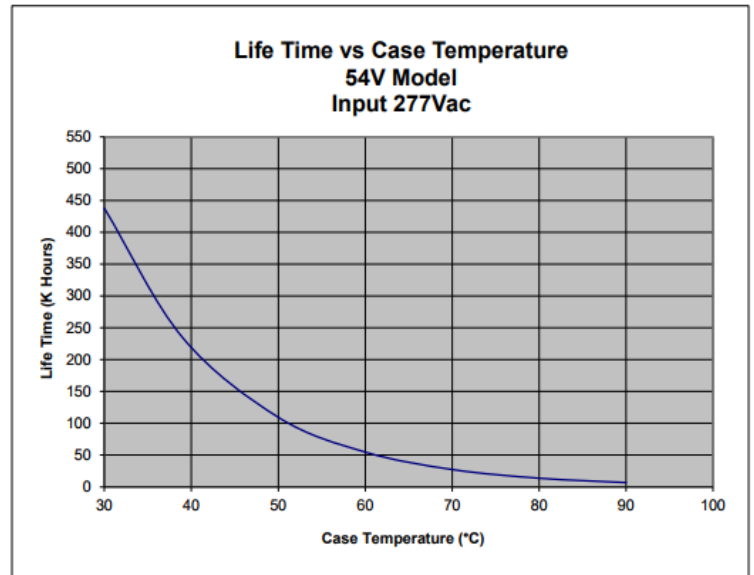
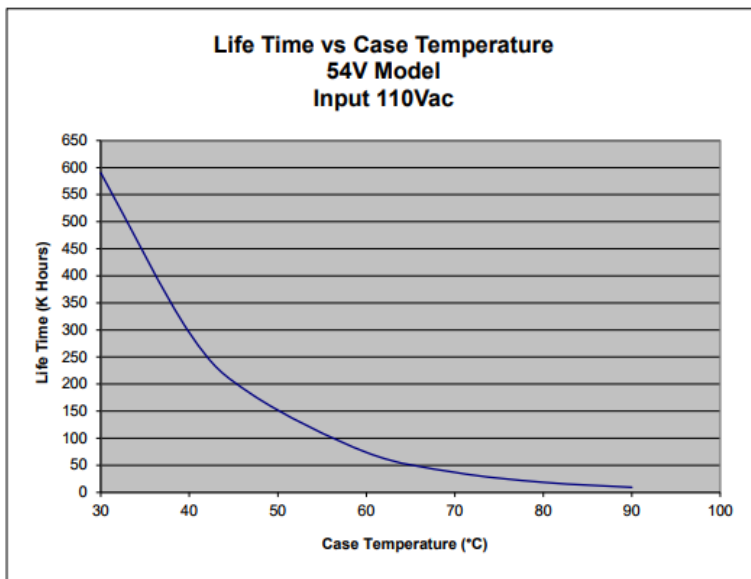
■ Efficiency vs Load



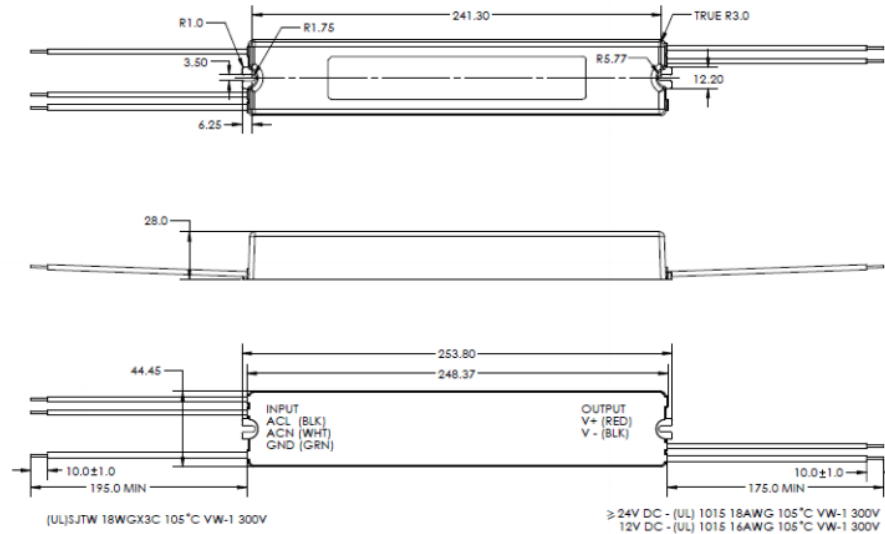
■ Power Factor vs Load



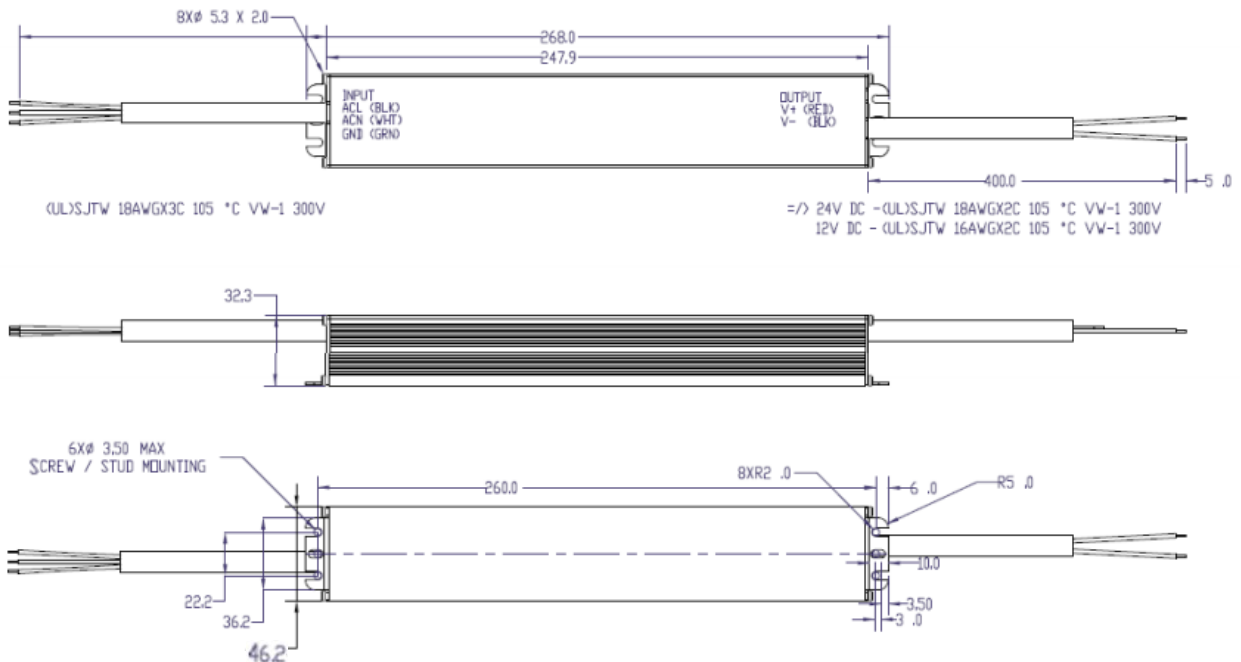
■ Lifetime vs Case Temperature

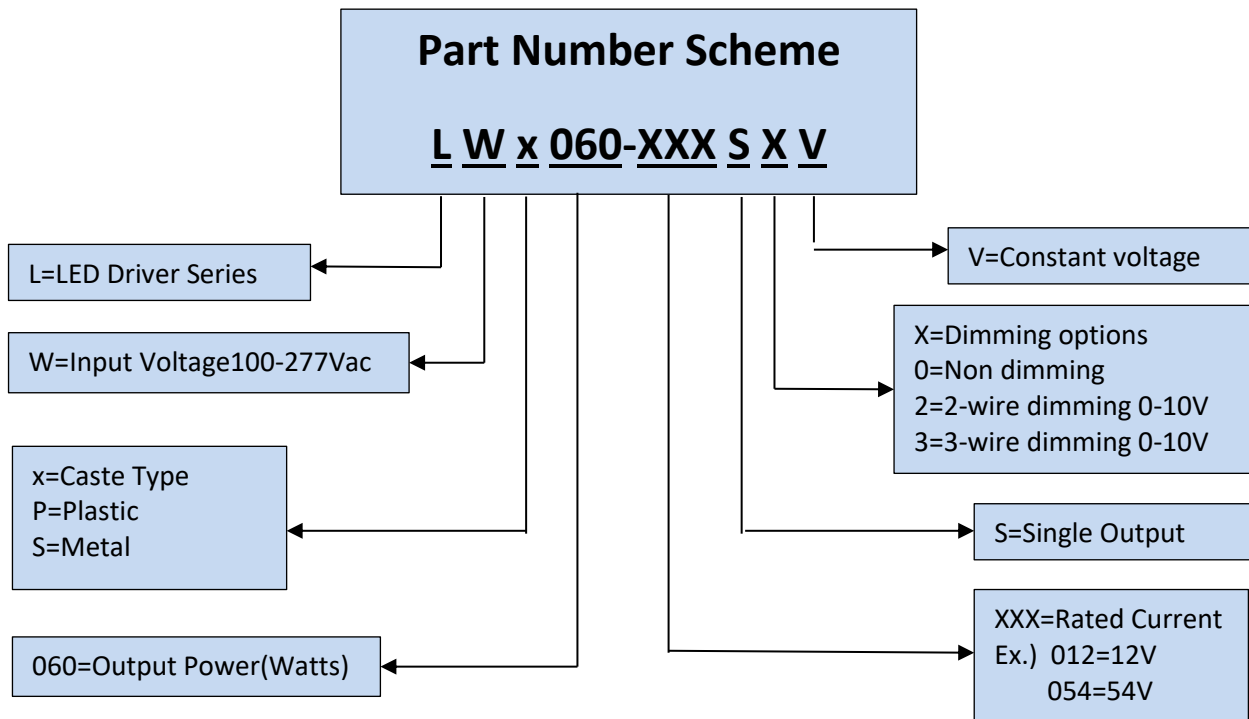
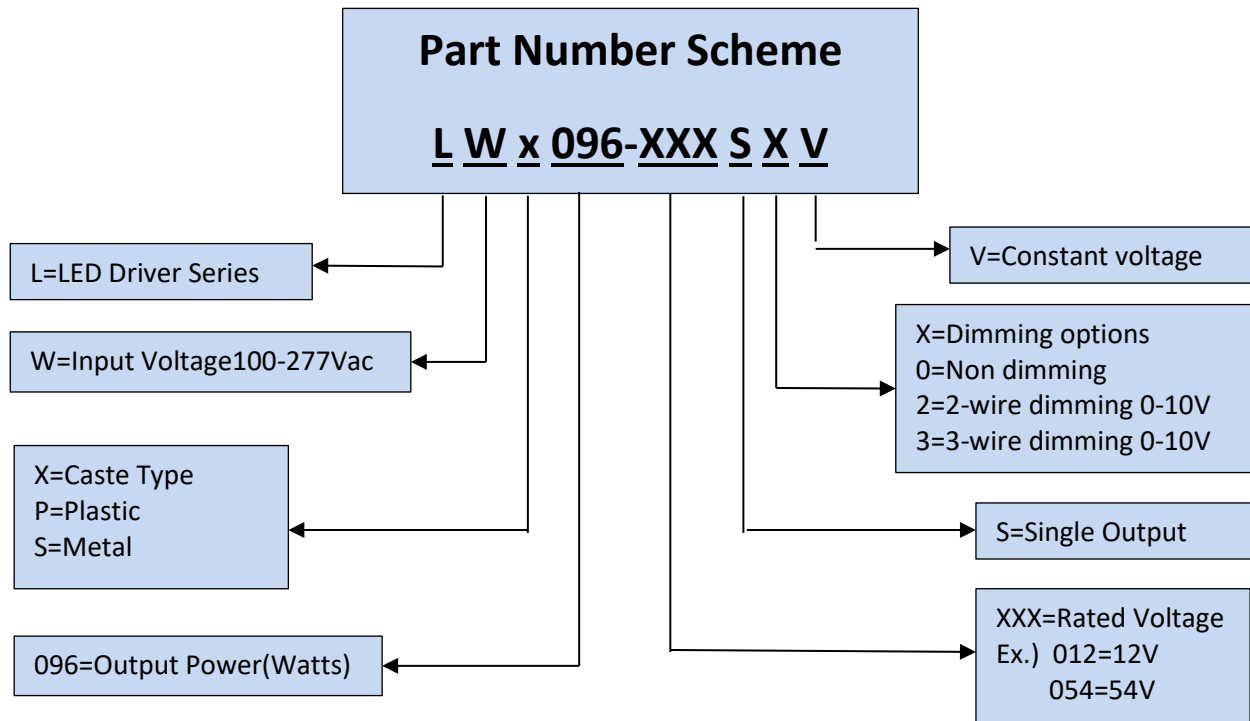


■ Mechanical Diagram Plastic Case



■ Mechanical Diagram Metal Case





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

***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**