

■ Features

- Power Rating: 96W
- Input Voltage: 120-277Vac
- Constant current and constant voltage hybrid design
- Adjustable Output current (800mA-8000mA)
- Efficiency to 90%
- 0-10V, Dim-to-off option
- Programmable with Near Field Communication technology without power to the driver
- 12V 200mA Aux power
- UL Class "P", and UL Class 2 outputs
- OVP, SCP, OTP, & Over Current Protection
- IP20
- 5-year warranty
- Surge Protection: Diff: 4kV, Common: 6kV



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

■ Application

- Indoor applications

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

Model Number	Input Voltage Range	Output Power	Programmable Output Voltage	Programmable Output Current Region	Efficiency 120V/230V	Certification
L2WHP100S012ST-20	120-277Vac	96W	7.2-12V	3.2-8A	86%/88%	UL/cUL
L2WHP100S024ST-20	120-277Vac	96W	14.4-24V	1.6-4A	88%/89%	UL/cUL
L2WHP100S036ST-20	120-277Vac	96W	21.6-36V	1.08-2.7A	88%/90%	UL/cUL
L2WHP100S048ST-20	120-277Vac	96W	28.8-48V	0.8-2A	88%/90%	UL/cUL

■ Technical Data

Input voltage range	120-277Vac
Frequency	47-63Hz
Power factor	> 0.99 @120Vac & 80~100% Full load, > 0.95 @230Vac & 80~100% Full load
Output voltage	7.2-48V
Output power	96W
Ripple and Noise	2.5%Vo
Max input current	0.94A @120Vac, 0.45A@230Vac
Max input Power	96W
Efficiency	86-90%
Line Regulation	±0.3%
Load Regulation	±1.2%

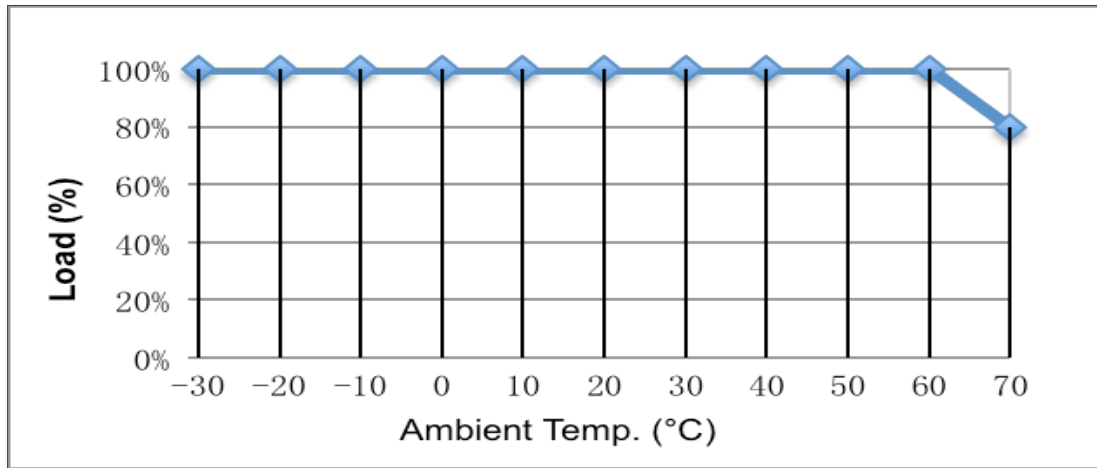
■ Technical Data(cont.)

Inrush Current	65A @230Vac cold start +25°C
Dimming	0~10V, Dim-to-off option, Triac/ELV
THD	< 20%
Current Programmable	Yes
Output Current Adjustable Range	800-8000mA
Over Current Protection	Protection type: Constant current limiting, recovers automatically after fault condition is removed
Short Current Protection	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	1.1Vo, Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Temp. Protection	Hiccup mode, recovers automatically after fault condition is removed
Working Temperature	-35~+60°C
Max T-case Temp.	93°C
Working Humidity	10 ~ 100% RH non-condensing
Storage Temp., Humidity	-40 ~+85°C, 5 ~ 100% RH
Temp. Coefficient	±0.05%/°C (0~50°C)
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
Dimensions	215x44.8x31mm 8.5x1.76x1.22 in
Packing	TBD
Weight	TBD

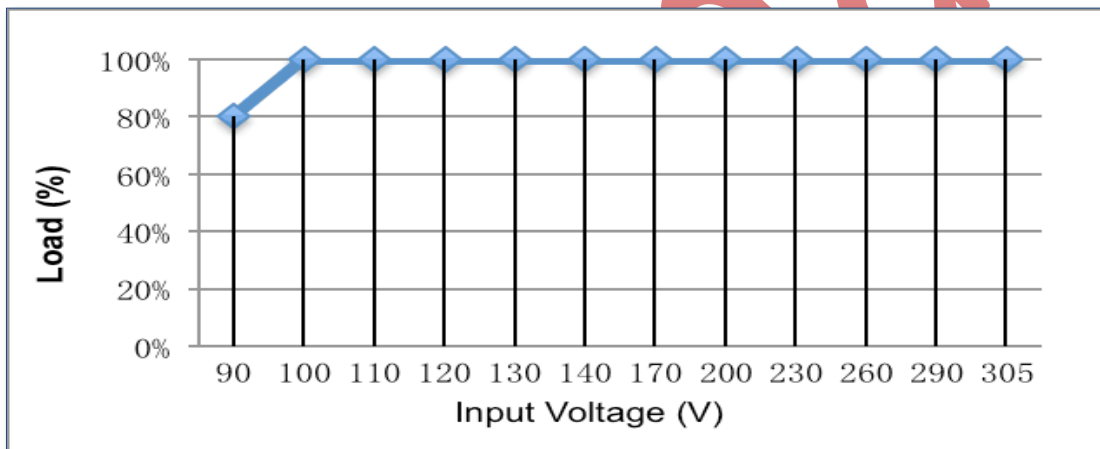
■ Safety Compliance

Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 No.107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P – O/P: 3.75kVAC
Isolation Resistance	I/P – O/P: 100M Ohms / 500VDC /25°C / 70% RH
EMC Emission	Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024

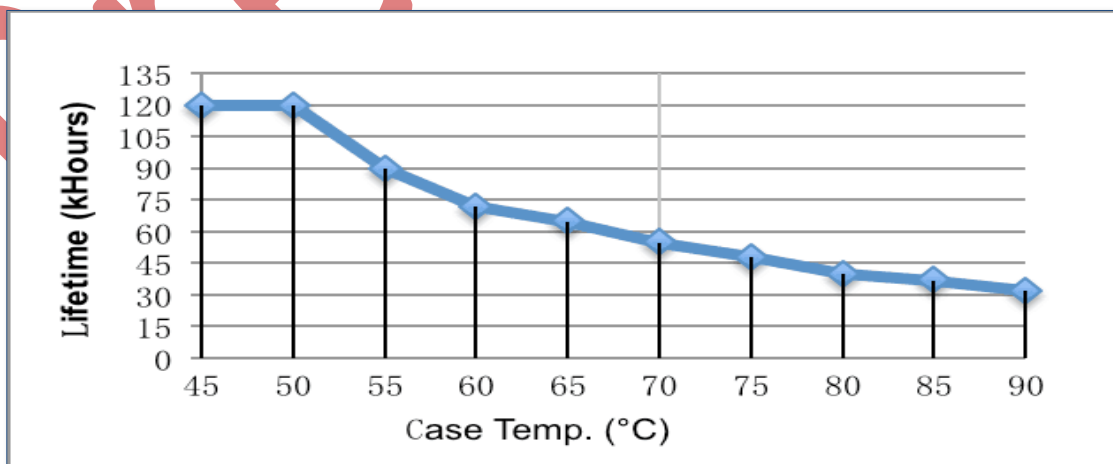
■ Derating Curve



■ Static Characteristics

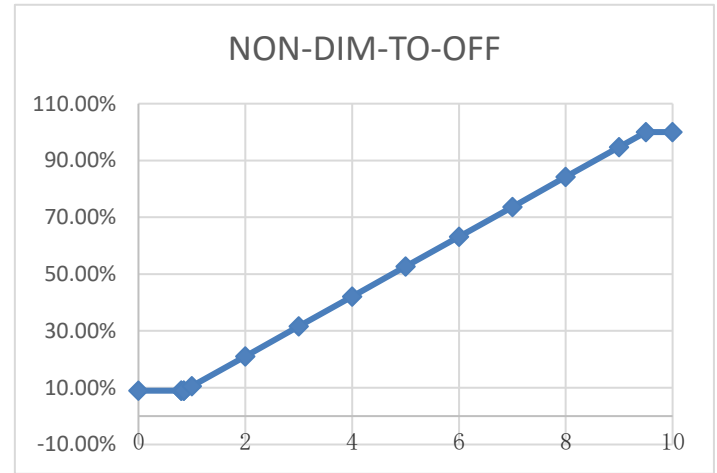
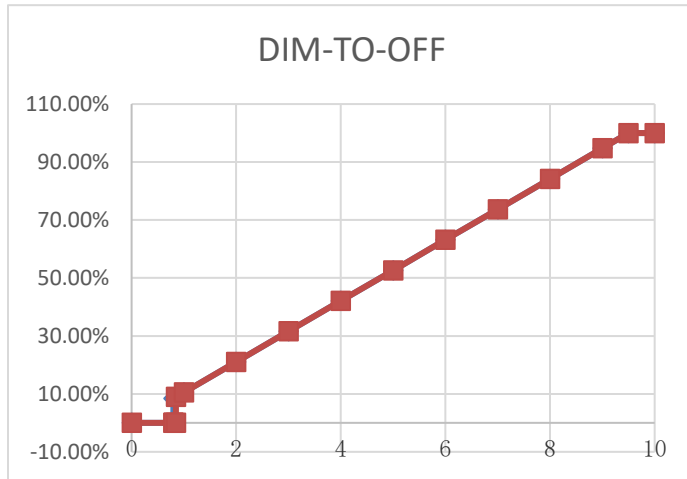


■ Lifetime vs Case Temp.



■ Dimming

0-10V Analog Dimming

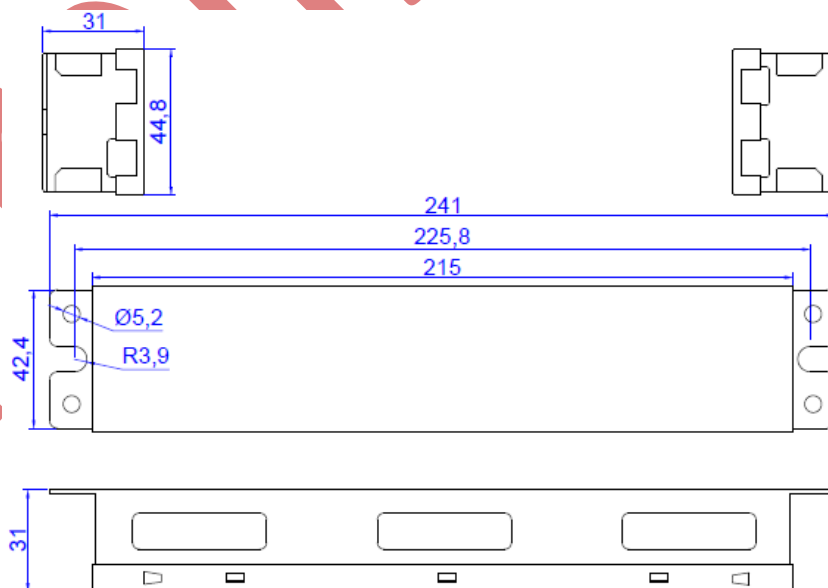


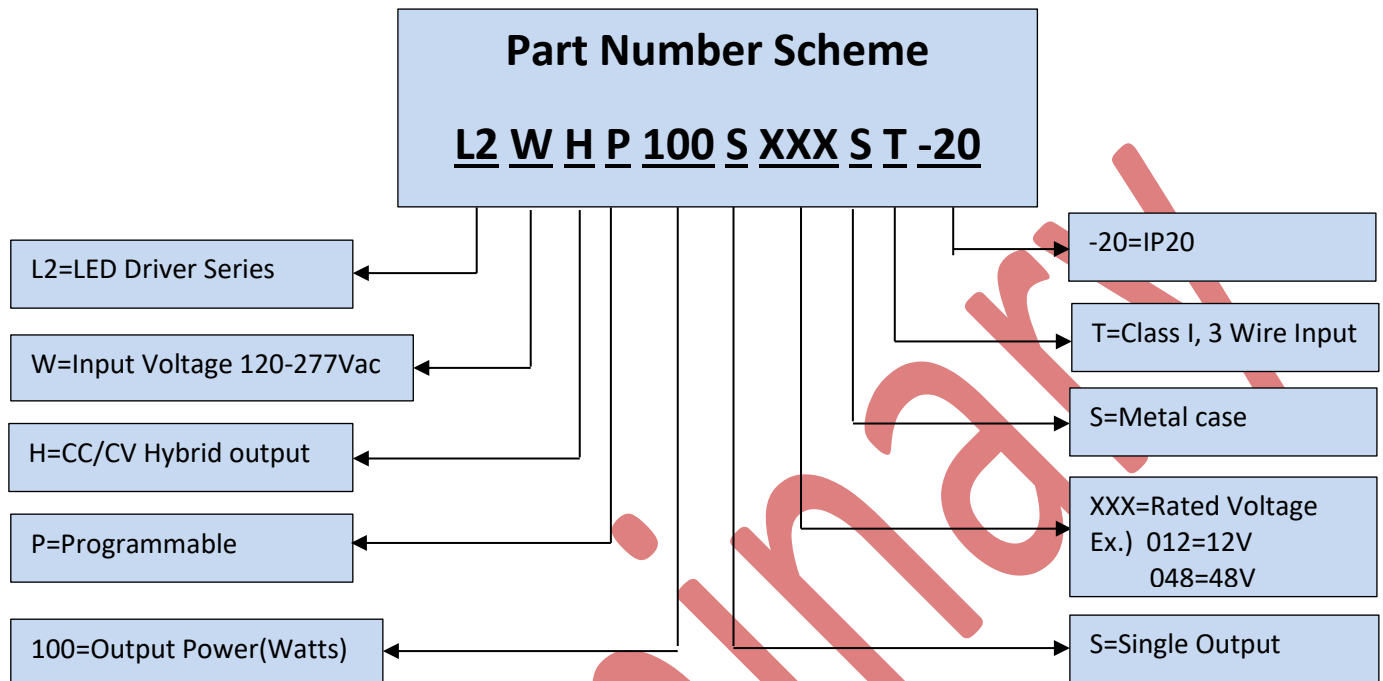
GND	Grey
Dimming wire 0-10V	Purple
Input Dimming Voltage	0-10V
DIM+ Source Current	0-1mA

NOTE:

1. I_o is actual output current and I_r is rated current without dimming control.
2. For the driver to operate properly, the load voltage must be in the working voltage range.
3. We have DIM-TO-OFF option, which can be programmed by the programmer.
4. Maximum input voltage for the dimming wire is 12V.

■ Mechanical Design





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