

■ Features

- Power Rating: 120W
- Input Voltage: 100-277Vac
- Constant voltage design
- Output currents (5000mA-10000mA)
- Fixed output current
- Efficiency up to 82%
- Triac dimmable driver-PWM Output
- Dimming Range: 0-100%
- Flicker Free
- Compatible with Forward phase, reverse phase, Triac, MLV, ELV Dimmers
- UL Class 2, Class P, Type HL
- OVP, SCP, OTP, & Open Circuit Protection
- IP67
- 5-year warranty



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

■ Application

- Indoor and outdoor lights
- Damp locations

■ 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	Certification
L14WVT120S012ST	100-277Vac	120W	12V	10000mA	10000mA	82%	UL/cUL
L14WVT120S024ST	100-277Vac	120W	24V	5000mA	5000mA	82%	UL/cUL

■ Technical Data

DC Voltage	12V, 24V
Rated Current	5A, 10A
Rated Power	120W
Voltage Tolerance	± 0.5V
Voltage Regulation	± 0.5%
Load Regulation	±2%(12V), ±1%(24V)
Input voltage range	100-277Vac
Frequency Range	47-63Hz
Power factor(typ.)	0.99@120Vac, 0.96@277Vac(12V), 0.98@120Vac, 0.96@277Vac(24V)
THD	<20%(typ.) full load
Efficiency	82%(typ.) full load

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■ **Technical Data(cont.)**

AC Current	1.7A@100Vac(max.)
Inrush current	20A, 50%, 1.6ms(typ.)
Leakage Current	<0.50mA
Short circuit protection	shut down o/p voltage, re-power on to recover after fault condition is removed
Over load protection	≤120% constant current limiting, auto-recovery
Over temperature protection	100°C±10°C shut down o/p voltage, automatically recover after cooling.
Working Temperature	-40 to +60°C (see below derating curve)
Working Humidity	20~90%RH, non-condensing
Storage Temp. Humidity	-40 to +80°C, 10~95%RH
Temp. coefficient	±0.03%/°C(0 to 50°C)
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes
Weight	1.05Kg
Size LxWxH	230x70x43mm
Packing	10pcs/carton

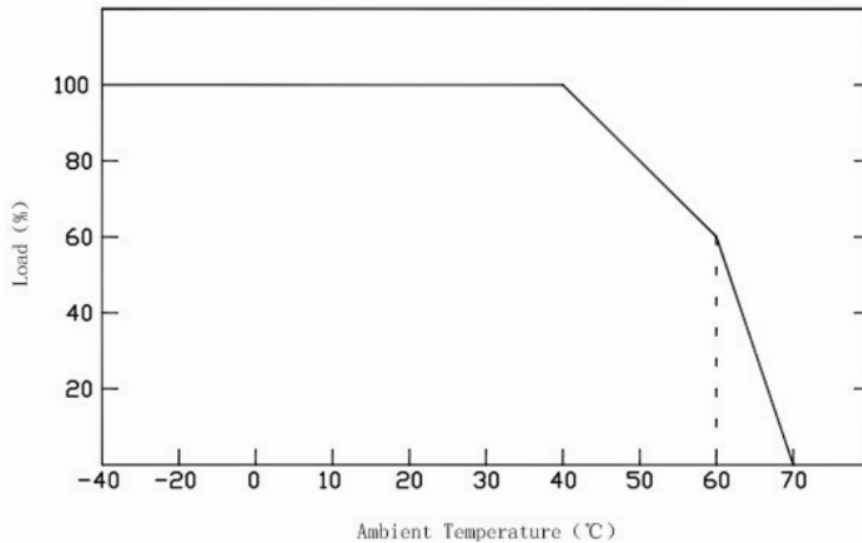
■ **Safety Compliance**

Safety Standards	UL8750
Withstand Voltage	I/P-O/P:1.88KVac
Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH
EMC Emissions	FCC Part 15 B

Notes:

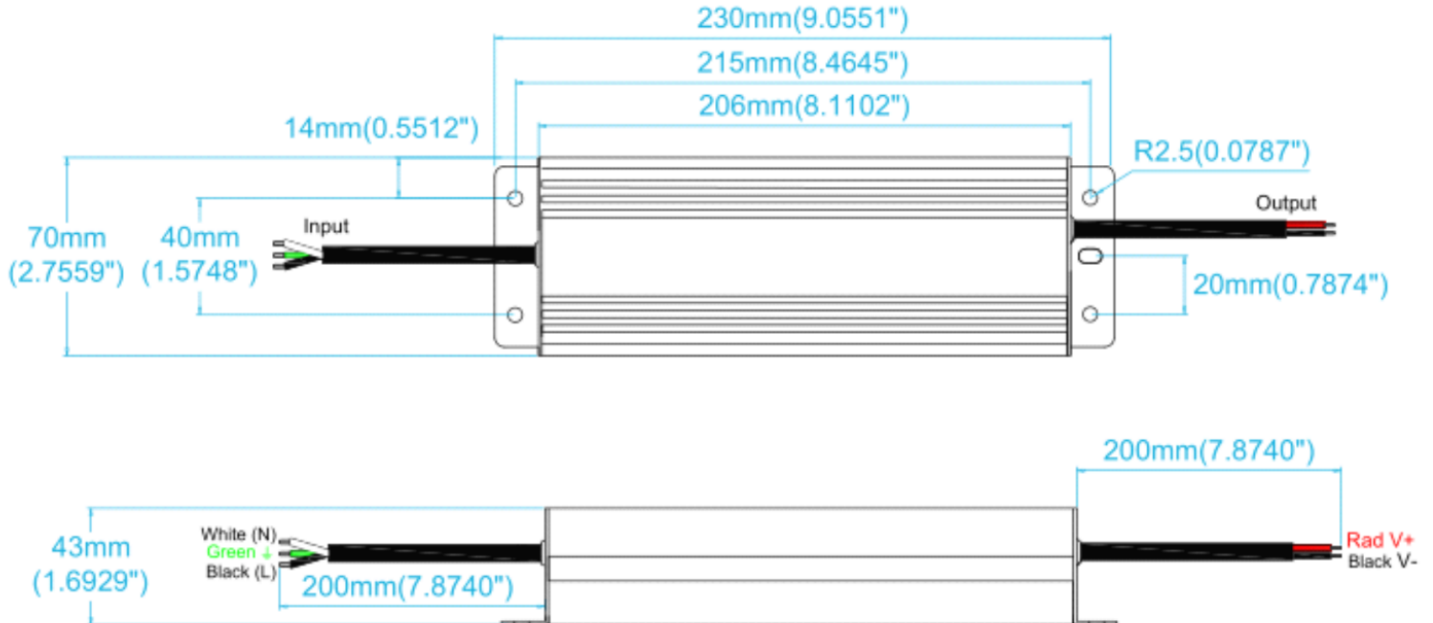
1. All parameters if not specifically mentioned are measured at 120Vac input, rated load and 25C ambient temperature.
2. To extend the drive3r's using life, please reduce the loading at lower input voltage.

■ Derating Curve



To extend the life, please refer to the Derating Curve and derate according to the temperature

■ Mechanical Diagram



Unit: mm

Tolerance: P 0.5-2mm

Wire Specifications	
Input	3*18AWG Black and White to be connected to AC L and N, Green wire to ground
Output	2*16AWG Red to LED Positive side(+), Black to LED Negative side(-)

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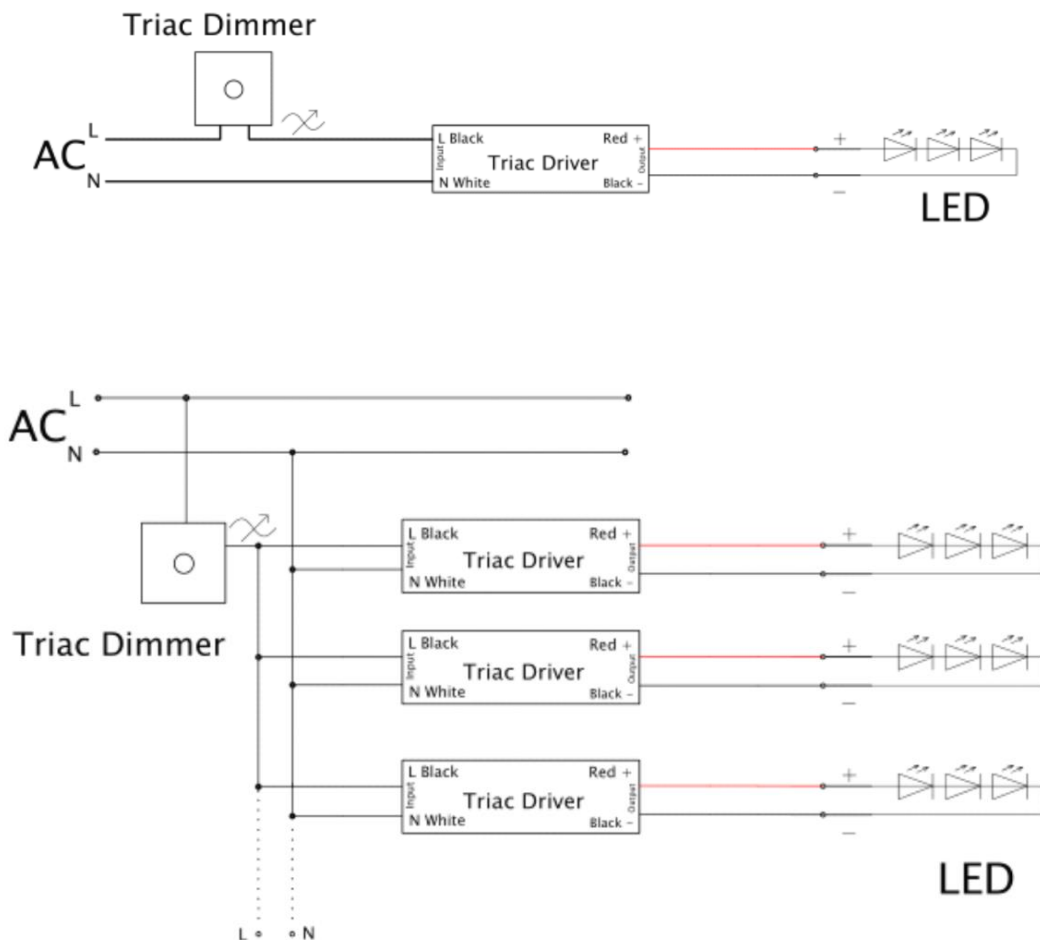
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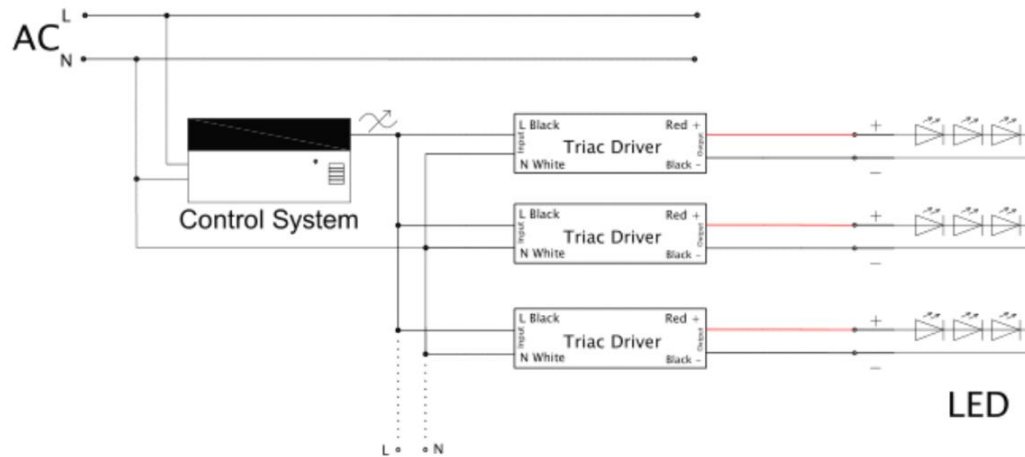
■ Dimming Operation

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through the input terminal of the AC phase line(L) by connecting a phase/triac dimmer.
2. Usually matching with Forward phase, leading edge, Magnetic low voltage, triac dimmers, or Reverse phase, trailing edge, Electric low voltage Dimmers.
3. Please try to use dimmers with power at least 1.5 times higher than the output power of the driver.

■ Wiring Diagram

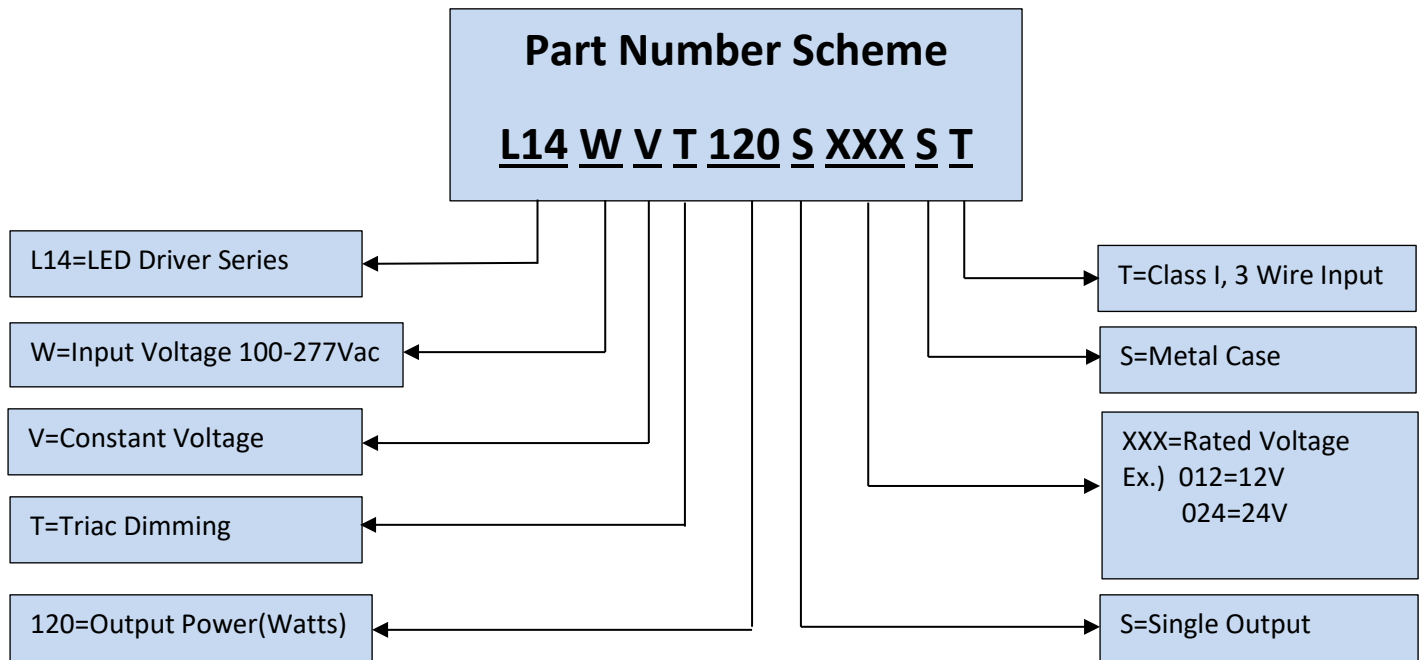


■ **Wiring Diagram(cont.)**



■ **Instruction**

1. This driver should be installed by qualified person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before testing, in order to avoid light and power supply damage.
4. If driver does not work normally, Please contact Autec Sales for any other questions.



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