L7WCD050SXXXSS-L Series

27-52W, 100~277Vac Input, Constant Current LED Driver

RoHS Compliant

Features

- Power Rating: 27-52W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(600mA-1150mA)
- Efficiency to 87%
- 0-10V/PWM Dimming
- 0-100% dimming range
- SCP, LED disconnection protection
- UL certified
- 5-year warranty

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

Application

- Indoor lights

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
L7WCD050S060SS-L	100~277Vac	27W	18-45V	600mA	600mA	87%	UL
L7WCD050S070SS-L	100~277Vac	31.5W	18-45V	700mA	700mA	87%	UL
L7WCD050S075SS-L	100~277Vac	34W	18-45V	750mA	750mA	87%	UL
L7WCD050S080SS-L	100~277Vac	36W	18-45V	800mA	800mA	87%	UL
L7WCD050S083SS-L	100~277Vac	37W	18-45V	830mA	830mA	87%	UL
L7WCD050S090SS-L	100~277Vac	41W	18-45V	900mA	900mA	87%	UL
L7WCD050S095SS-L	100~277Vac	43W	18-45V	950mA	950mA	87%	UL
L7WCD050S100SS-L	100~277Vac	45W	18-45V	1000mA	1000mA	87%	UL
L7WCD050S105SS-L	100~277Vac	47.25W	18-45V	1050mA	1050mA	87%	UL
L7WCD050S110SS-L	100~277Vac	49.5W	18-45V	1100mA	1100mA	87%	UL
L7WCD050S115SS-L	100~277Vac	52W	18-45V	1150mA	1150mA	87%	UL

Technical Data

Input voltage range	100~277Vac
Frequency	50/60Hz
Power factor	> 0.9 under 100~277Vac input with 80~100% load condition (for all output currents)
Inrush current	50A @277Vac
Max input current	0.62A @100Vac
Ripple & noise	≤0.5Vp-p
THD	< 20% under 100~277Vac input with 80~100% load condition (for all output currents)
Turn-on Delay Time	1s Max. at full load condition
Protection	LED disconnection protection: If the LED driver is disconnected from power such as hiccup mode, no damage will occur to the Driver. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.

■ Technical Data(cont.)

Operating Temperature	-20˚C to +55˚C
Relative Humidity	20%RH to 90%RH
Storage Temperature	-20˚C to +70˚C
Relative humidity	10%RH to 90%RH
Burn-in	The Power supply shall undergo a minimum of 2-4 hours burn-in test at 45˚C ±5˚C
MTBF	50,000 hours at 25°C at full load and nominal input condition
Dimensions LxWxH	278x29.5x21mm 10.9x1.16x0.82in
Packing	TBD

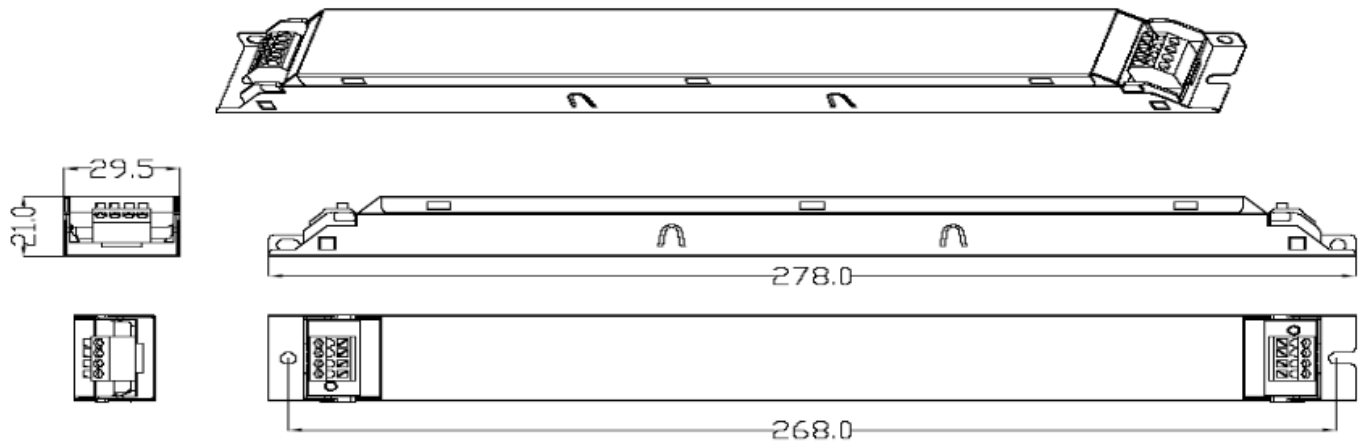
■ Safety Compliance

Dielectric Strength	Primary to Secondary: 2000Vac 5mA Max/60seconds
	Ground to primary: 2000Vac 5mA Max/60seconds
	Ground to Secondary: 600Vac 5mA Max/60seconds
Insulation Resistance	50Ω min at primary to secondary add 500Vdc test voltage
EMI Standard	EN55015:1998, +A1:2000 +A2:2003, Class B. FCC

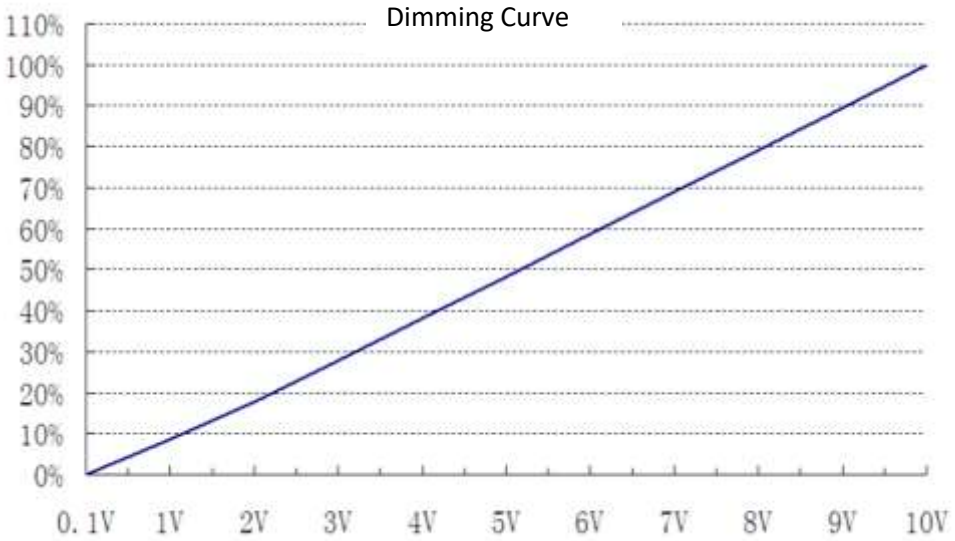
Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

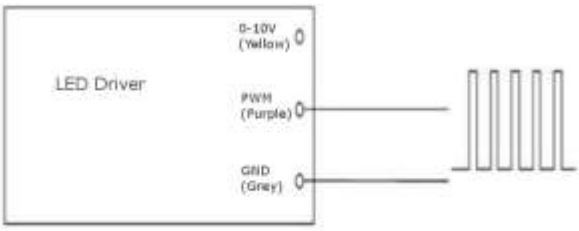
■ Mechanical Diagram

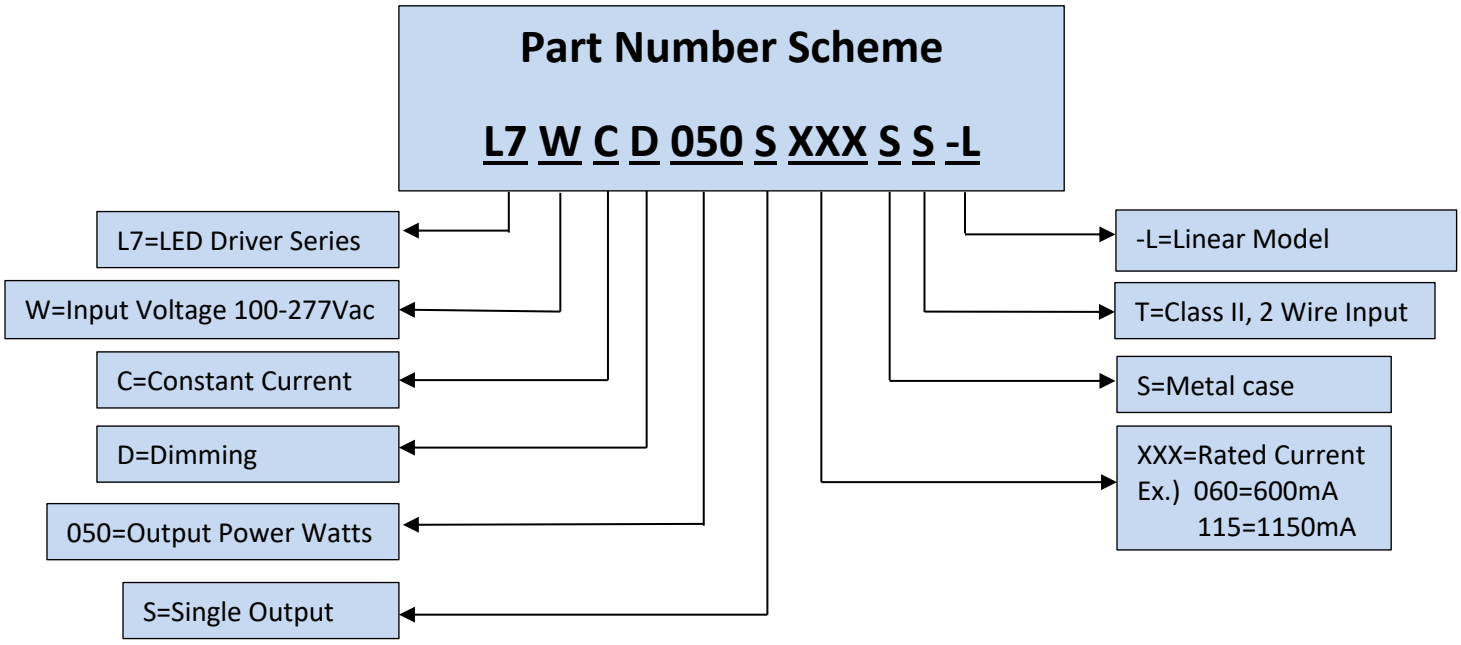


■ 0-10V Dimming Curve



■ PWM Dimming





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