

■ Features

- Power rating: 75W
- Input Voltage: 90-305Vac
- Constant current design
- Output Current (500mA-2300mA)
- Selectable output switch
- Efficiency up to 90%
- Optional dimming function: 0-10V PWM, Resistor, Timing/Dim-to-off
- Safeties; UL/CCC/TUV/BIS/SAA/CE
- Protections: SCP, OTP, OVP
- IP67
- 5-year warranty
- Surge Protection: L/N-PE/GND: 6KV, L-N 4KV



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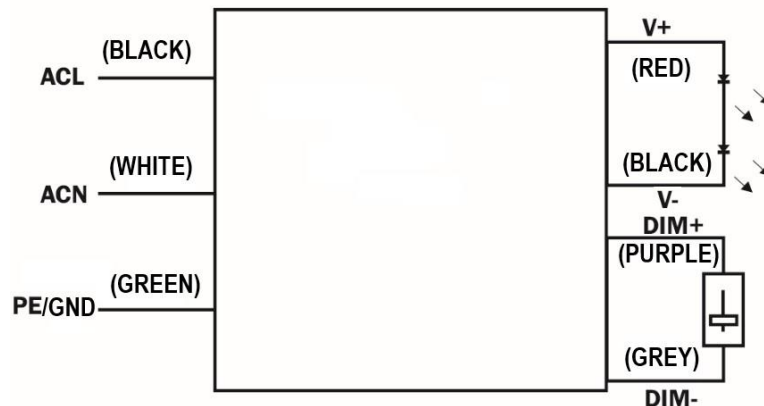
■ Application

- High bay 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
L3WCD075S230ST-E	90 ~ 305Vac	75 W	24-42V	1000mA	2300mA	88.5%	UL/CCC/TUV BIS/SAA/CE
L3WCD075S180ST-E	90 ~ 305Vac	75W	32-58V	900mA	1800mA	89%	UL/CCC/TUV BIS/SAA/CE
L3WCD075S105ST-E	90 ~ 305Vac	75W	60-108V	500mA	1050mA	90%	UL/CCC/TUV BIS/SAA/CE

■ Wiring Diagram / Dimming



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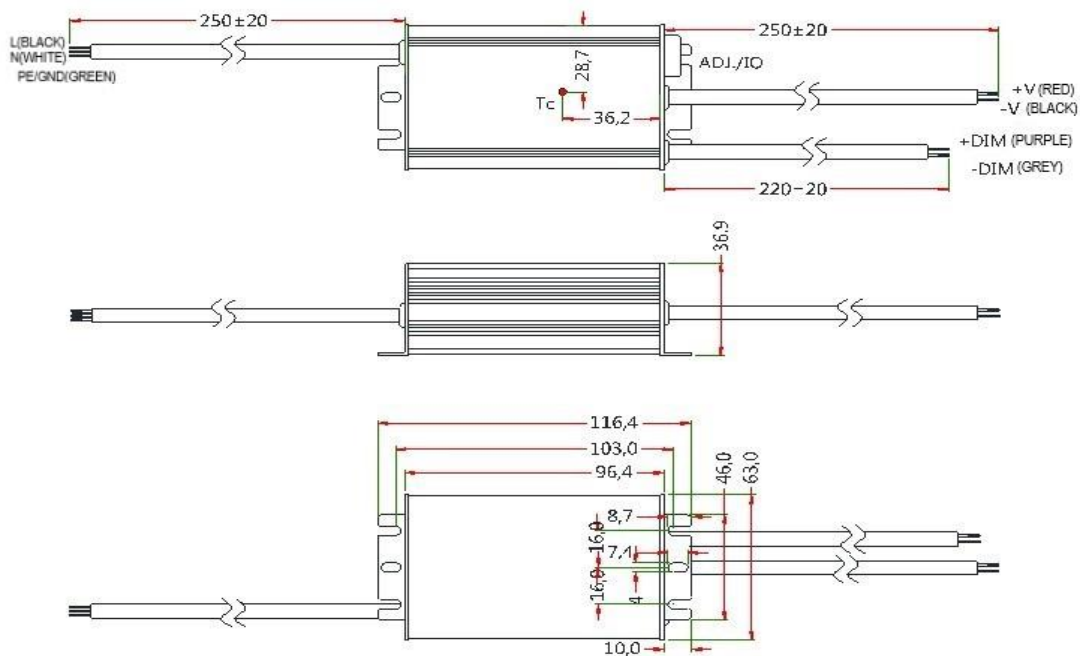
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■ Input Characteristics

Parameter	Min	Typ.	Max	Remarks
Rated AC input range	100Vac		277Vac	
AC input range	90Vac		305Vac	
Input frequency range	47Hz		63Hz	
Max input current			1.0A	90Vac, full load
Inrush current			60A	230Vac/50Hz, cold start
No load power		0.5W	1W	277Vac/50Hz, No load
AC input OVP	320Vac	330Vac	340Vac	
Power factor	0.93	0.95		230Vac/50Hz, full load
	0.9			100-277Vac/50Hz, 70-100% Load
THD		10%	12%	230Vac/50Hz, full load
			20%	100-277Vac/50Hz, 70-100% Load

■ Mechanical Design



Input Wire: UL STW #18AWG, 3 X 0.824MM², O.D. 9MM, GREEN: PE/GND, BLACK: L, WHITE: N
Output Wire: UL SJTW #14AWG 2X2.08MM², O.D. 9MM, RED: V+, BLACK: V-
Dim Wire: STYLE 2733, #22AWG O.D. 5.0MM, PURPLE: DIM+, GREY: DIM-

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■ **Safety Compliance**

Certification		Standard	Status	Remark
UL/cUL		UL8750	√	
TUV		EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013 EN62493:2015		Pending
SAA		AS/NZS61347.2.13		Pending
BIS		IS15885:2012 Part 2 Sec 13		Pending
CCC		GB 19510.14-2009		Pending
CE		EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013	√	
Item		Standard	Remark	
Insulation Strength	Input-output	3200Vac/5mA Max/60s	Reinforced insulation	
	Primary-Earth	1600Vac/5mA Max/60s	Basic insulation	
	Sec.- Earth	1000Vac/5mA Max/60s	Function insulation	
Insulation Resistance	Input-output	≥10 MΩ	Testing Voltage: 500Vdc	
Ground Resistor		≤0.1Ω	25A/1min	
Leakage Current		≤0.75mA	277Vac	
Item		Criterion	Remark	
Conduction Emission		EN55015:2013+A1:2015		
Radiation Emission		EN55015:2013+A1:2015		
Harmonic Current Emissions		IEC/EN 61000-3-2	Class C	
Surge		IEC/EN61000-4-5	Difference mode 4KV, Common mode 6KV Criterion B	

■ Performance Curve

Fig. 1 O/P Voltage VS Output Current

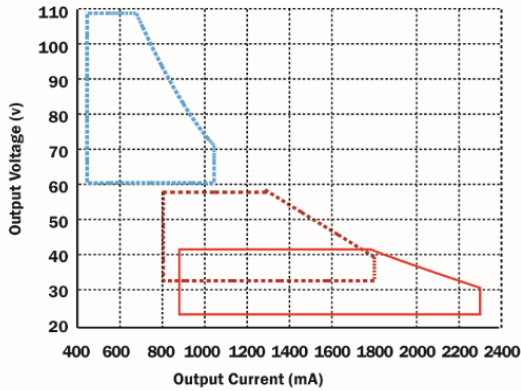


Fig. 2 O/P Power VS Ambient Temperature

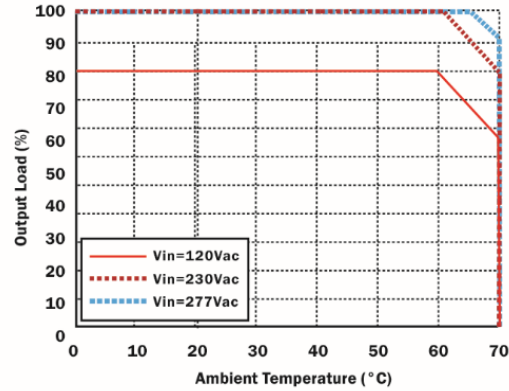


Fig. 3 Power Factor VS Output Power

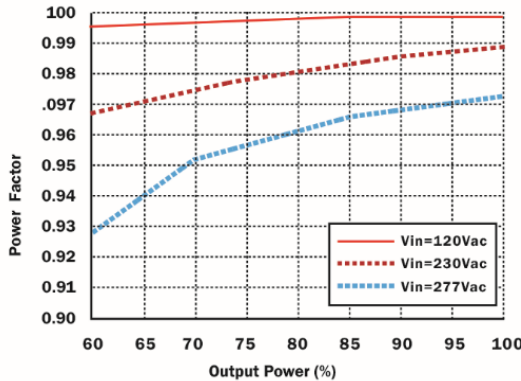


Fig. 4 THD VS Output Power

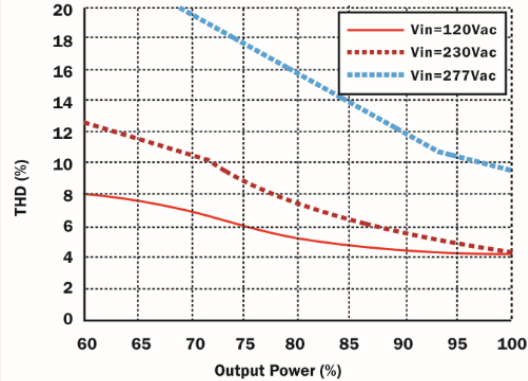


Fig. 5 Efficiency VS Output Power

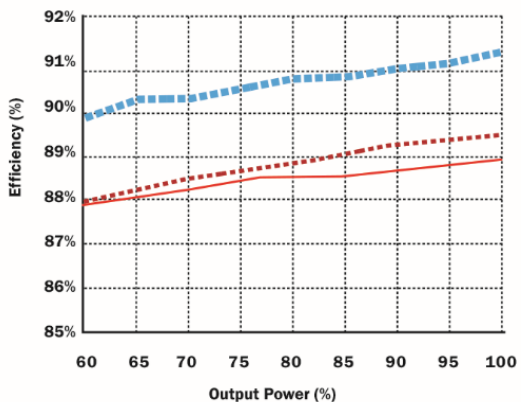
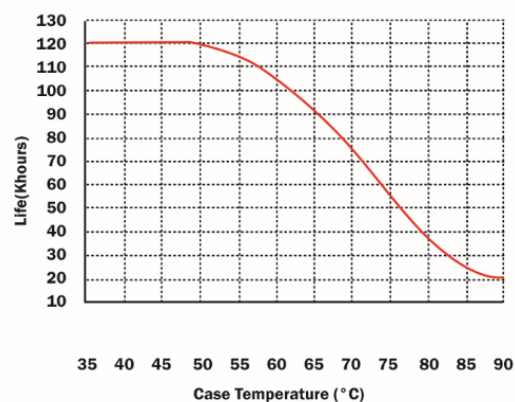


Fig. 6 Lifespan VS Case Temperature



Parameter		Min	Typ.	Max	Remarks
0-10V Dimming (optional)	Dim Vmax	-20V		14V	3 in 1 Dimming; 1-5V Dimming optional; Negative Logic Dim Optional
	Dim Range	10% Io max		100% Io set	
	Voltage	1V		10V	
	OFF	0.3V	0.5V	0.7V	Dim-off value
	On	0.5V	0.7V	0.9V	
PWM Dimming (Optional)	High	5V		10V	
	Low	-0.3V		-0.6V	
	Frequency	200Hz		2KHz	
	PWM Duty	1%		99%	
Resistor Dimming (optional)	Resistance	10K Ohm		100K Ohm	
	Dimming	10% Io max		100% Io Set	
Timing Curve (optional)	IC Control	By Programming			Typically, 3-4 sections
	Timing	5H/6H/7H/8H per section			DefaultMode:24 Hour/Circle with 50% load
Protection	OTP	90°C	100 °C	110 °C	Tc, Self-recovery
	Short Circuit Protection	Driver will not damage with CC Limit			Remove abnormal, Self-recovery
Life Time		55,000hrs			347Vac full load, Tc 75°C
MTBF		200,000hrs			347Vac full load, Ta=25°C, (MIL-HDBK-217F)
Temperature Coefficient		-0.03%/°C			+0.03%/°C 0°C~85°C
Tc					85°C
Warranty		5 years			Tc75°C
Net Weight		1.5kg			
Dimension		96.4x63x37			LxWxH

■ Dimming

0-10V Dimming (Typ.)

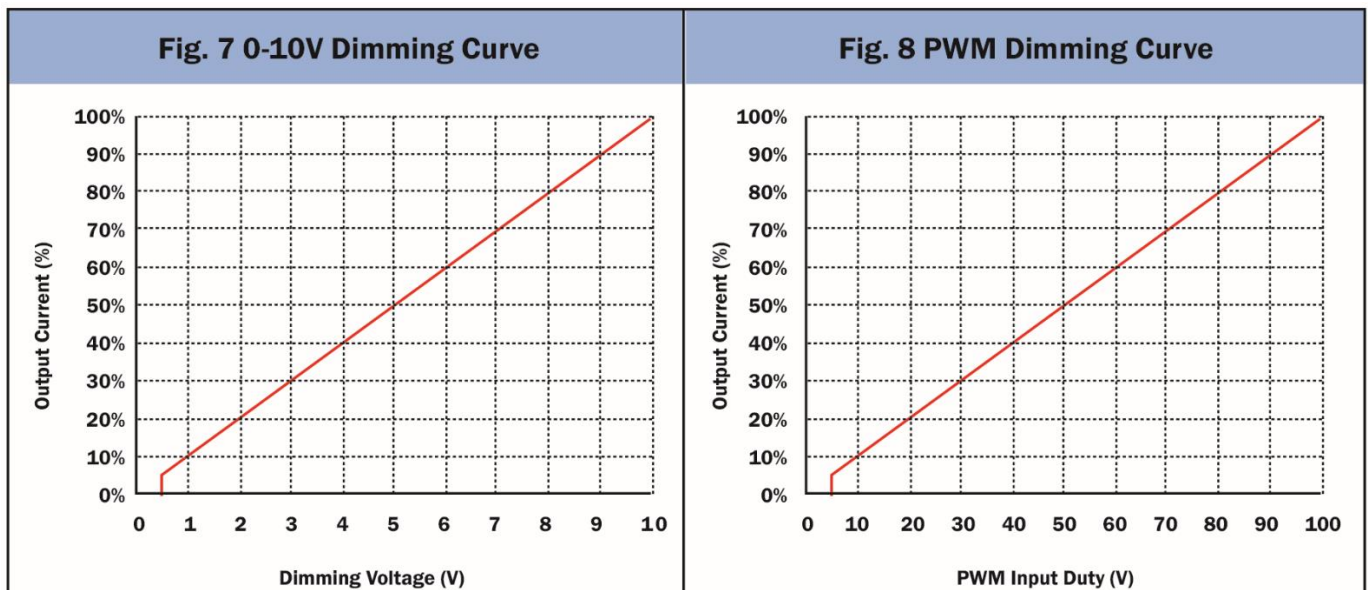
Voltage Range	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	Open
Rated Current Percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

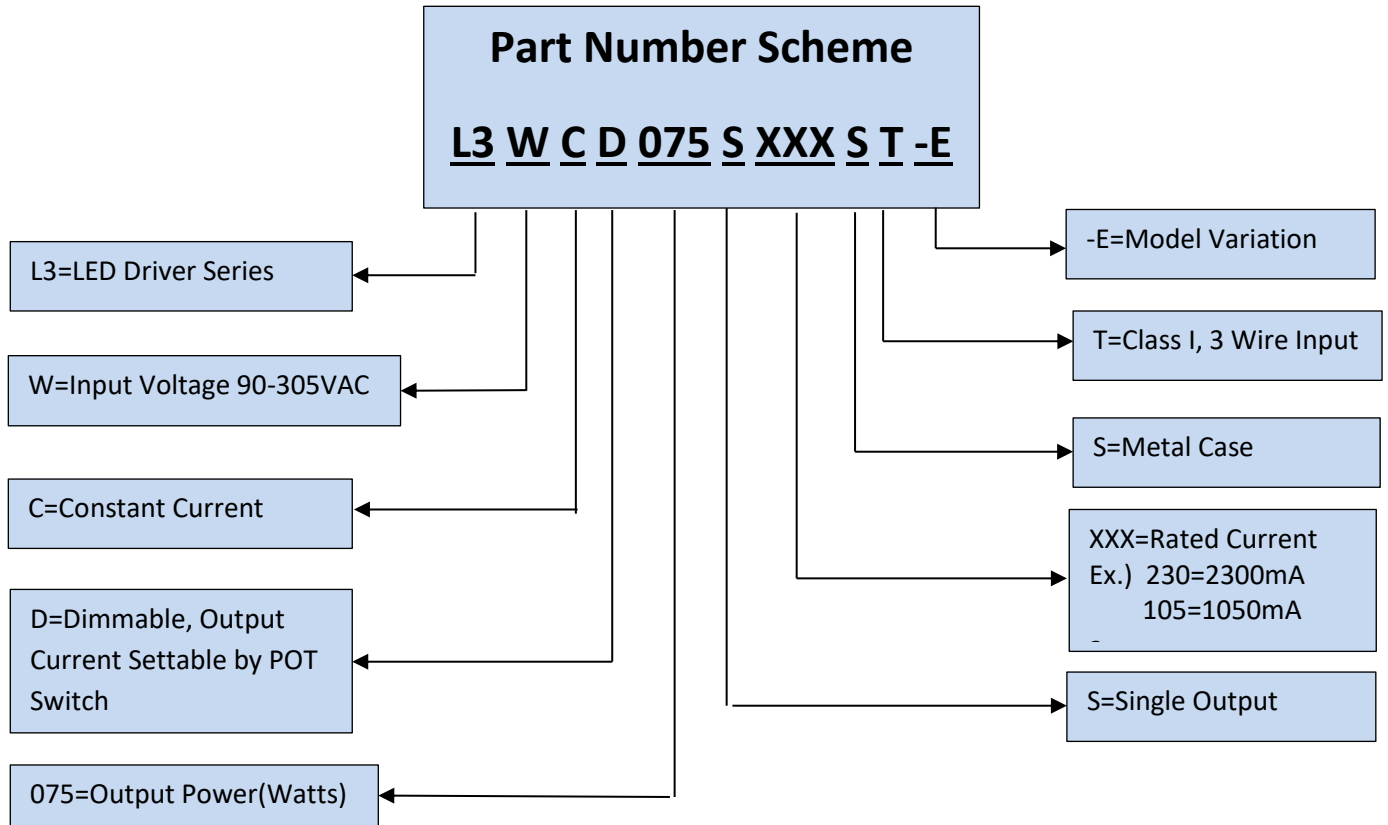
PWM Duty	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Open
Rated Current Percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

Resistor(Typ.)

Resistor	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100 KΩ	Open
Rated Current Percentage	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%

■ Dimming Curve





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