

Features

Power Rating: 60W

• Input Voltage: 100-277Vac

- Constant current design
- Output current(770mA-1900mA)
- Selectable output through POT switch
- Efficiency up to 90%
- 3-1 Dimming, 0-10V/PWM/Resistor
- Isolated Dimming(Contact Autec Sales)
- Protections: SCP, OTP, OVP
- IP65
- 5-year warranty
- Surge Protection: L/N-PE: 4KV, L-N: 4KV



- High bay light
- Dry, damp and wet locations
- Model List*(See part number scheme for model number details)

Model Number	Input Voltage Range			Output Efficiency Current Max.		Certification	
L3WCD060S190STR	100-277Vac	60W	24-40V	1000mA	1900mA	90%	UL/cUL
L3WCD060S145STR	100-277Vac	60W	27-54V	770mA	1450mA	90%	UL/cUL

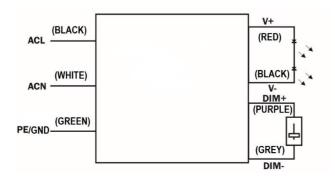
^{*}Timer dimming option available, contact Autec Sales.

Autec power supplies are designed to meet and comply with the safety standards listed above. Contact Autec Sales to confirm available safety approvals for your specific power supply application.

Notes:

- 1. Output current selectable by POT switch
- 2. Torque: 0.98 to 19.6mN-m (10 to 200gf·cm) max.
- 3. Stop strength: 49.0mN·m (500gf·cm) min

■ Wiring Diagram / Dimming



RoHS Compliant



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



■ Input Characteristics

Parameter	Min	Тур.	Max	Remarks
Rated AC input range	100Vac		277Vac	
AC input range	90Vac		305Vac	
Input frequency range	47Hz		63Hz	
Max input current			0.7A	100Vac, full load
				Cold start, 230Vac/50Hz,
Inrush current			60A	Twidth=450us measured at 50%
				Ipeak
No load power		0.5W	1W	277Vac/50Hz, No load
Power factor	0.93	0.95		230Vac/50Hz, full load
Power factor	0.90			100-277Vac/50Hz, 70-100% Load
THD		8%	10%	230Vac/50Hz, full load
Ind			20%	100-277Vac/50Hz, 70-100% Load

■ Output Characteristics

Paran	neter	Min	Тур.	Max.	Remarks
Output voltage range	L3WCD060S200STR	24V		40V	Power derated@24-32Vdc
Output voltage range	L3WCD060S145STR	27V		54V	Power derated@27-42Vdc
Rated Output	L3WCD060S200STR	32V		40V	Po=Vo*Io=60W, full load
Voltage	L3WCD060S145STR	42V		54V	F0=V0 10=00VV, Tull 10au
Rated Output	L3WCD060S200STR	1.5A		2A	2A for 32V, 1.5A for 40V
Current	L3WCD060S145STR	1.1A		1.5A	1.5A for 42V, 1.1A for 54V
Current Adjustable	L3WCD060S200STR	1.1A		2A	Rated Io 70%-100% adjustable
range	L3WCD060S145STR	0.77A		1.45A	Rated to 70%-100% adjustable
No load Voltage	L3WCD060S200STR	40.5V	41.5V	42V	
	L3WCD060S145STR	54.5V	55.5V	56V	
Ffficione:/@220Vcc	L3WCD060S200STR	88%	90%		Output 40V/1.5A
Efficiency@230Vac	L3WCD060S145STR	88%	90%		Output 54V/1.1A
Output curre	nt tolerance	-5%		+5%	
Output Voltage	Ripple (pk-pk)		1%	2%	Full load
Output Current	Ripple (pk-pk)		5%	10%	Full load
Start-up Curre	ent Overshoot			10%	
Start-u	p Time		0.5S	1 S	115Vac
Start-u	p Time		0.5S	1 S	230Vac
Line Reg	gulation	-1%		+1%	Full load
Load Re	gulation	-2%		+2%	

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



■ Safety Compliance

Certific	•	Standard	Status	Remark		
UL/d	CUL	UL8750	٧			
		EN 61347-2-13:2014				
C	E	EN61347-1:2008+A1:2011+A2:2013	٧			
		EN62493:2015				
SA	А	AS/NZS61347.2.13	٧			
CC	C	GB 19510.14-2009	٧			
BI	S	IS15885:2012 Part 2 Sec 13	٧			
Cl	=	EN61347-2-13:2014	٧			
C	_	EN61347-1:2008+A1:2011+A2:2013	V			
Ite	m	Standard		Remark		
Insulation	Input-output	3200Vac/5mA Max/60s	Reinf	orced insulation		
Insulation Strength	Primary-Earth	1600Vac/5mA Max/60s	Ва	sic insulation		
oti engan	Sec Earth	1000Vac/5mA Max/60s	Fun	ction insulation		
Insulation Resistance	Input-output	≥10 MΩ	Testing	g Voltage: 500Vdc		
Ground	Resistor	≤0.1Ω	25A/1min			
Leakage	Current	≤0.75mA	277Vac			
Ite	m	Criterion		Remark		
Conductio	n Emission	EN55015:2013+A1:2015				
Radiation	Emission	EN55015:2013+A1:2015				
Harmonic Curr	ent Emissions	IEC/EN 61000-3-2		Class C		
Sur	ge	IEC/EN61000-4-5		e mode 4kV, Common e 4kV Criterion B		

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.



■ Other Characteristics

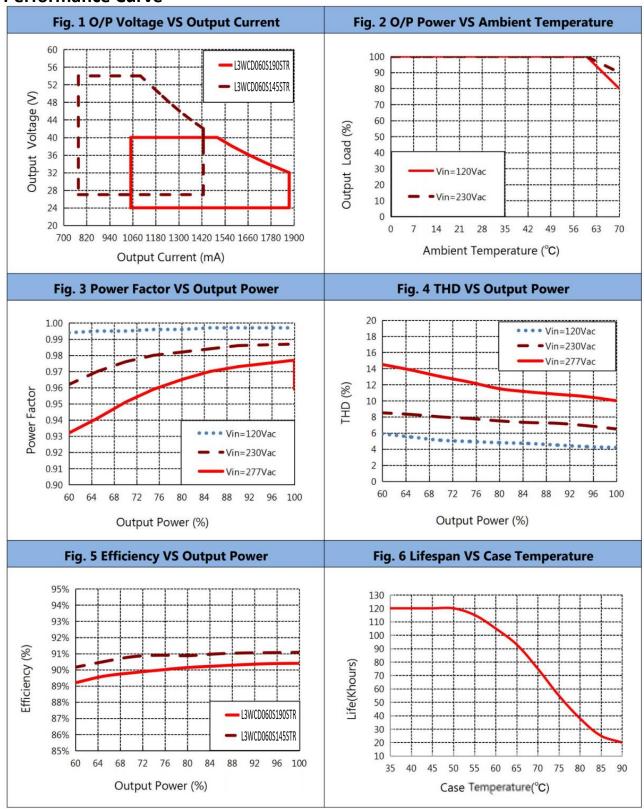
Parame	eter	Min	Тур.	Max	Remarks	
0.10\/ Dimming	Dim Vmax	0V		14V	3 in 1 Dimming; 0-5V Dimming	
0-10V Dimming (Optional)	Dim Range	10% lo max		100% lo set	optional; Negative Logic Dim	
(Optional)	Voltage	1V		10V	Optional Dim-off value	
	High	5V		10V		
PWM Dimming	Low	-0.3V		-0.6V		
(Optional)	Frequency	200Hz		2KHz		
	PWM Duty	1%		99%		
Resistor Dimming	Resistance	10K Ohm		100K Ohm		
(Optional)	Dimming	10% lo max		100% lo Set		
Timing Cunyo	IC Control		By Programn	Typically, 3-4 sections		
Timing Curve (Optional)	Timing	5H/	6H/7H/8H pe	DefaultMode:24 Hour/Circle		
(Optional)	Tilling		011/711/011 pe	with 50% load		
	OTP	90°C	100°C	110°C	Tc, Self-recovery	
Protection	Short Circuit	Driver will no	_	Hiccup mode		
	Protection		power <10	·		
Life Ti	me		55,000hrs		230Vac full load, Tc 75°C	
MTB	ıF		200,000hrs		230Vac full load,	
1411 5	,		200,0001113		(MIL-HDBK-217F)	
Temperature	Coefficient	-0.03%/°C		+0.03%/°C 85°C	Tc 0°C~90°C	
Tc						
Warra	nty		5 years	Tc 75°C		
Net We	eight		750g			
Dimens	sion		ф115mm*61	.8mm	DxH	

■ Environmental Data

Parameter	Min	Тур.	Max	Remarks		
Operating Temperature	-40°C	25°C	+60°C			
Storage Temperature	-40°C	25°C				
Operation Humidity	10%RH		90%RH			
Storage Humidity	5%RH		95%RH			
Altitude	-65m					
Cooling Method						
Packing	20pcs/carton, Carton Dimensions: 410mmx390mmx290mm					

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

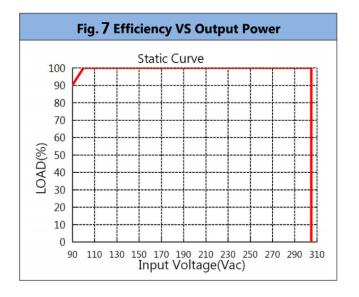
■ Performance Curve



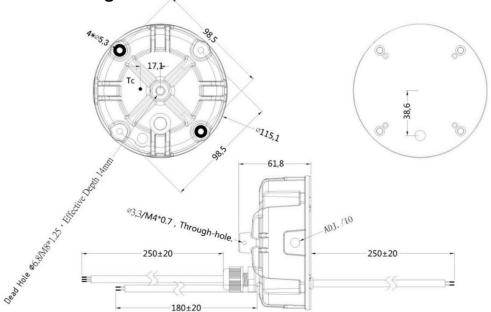
Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com
October 15, 2019



Performance Curve(cont.)







Wire Specifications							
Input Wire	UL STW #18AWG, 3 X 0.824mm ² , O.D. 7.8mm, GREEN: PE, BLACK: L, WHITE: N						
Output Wire	UL SJTW #18AWG 2X0.824mm², O.D. 7.8mm, RED: V+, BLACK: V-						
Dim Wire	STYLE 2733, #22AWG O.D. 5.8mm, PURPLE: DIM+, GREY: DIM-						

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA
October 15, 2019

6/8



Dimming

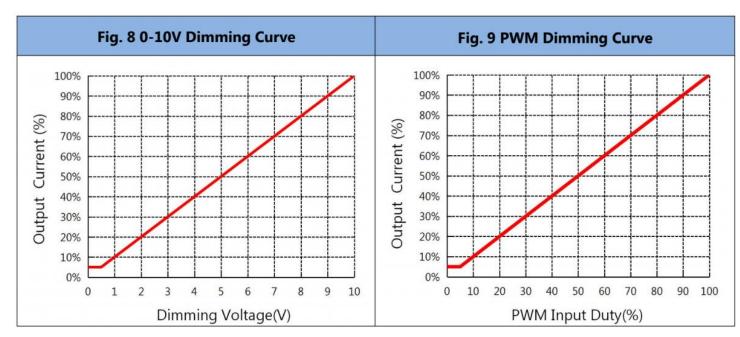
0-10V Dimming (Typ.)

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

Resist	or 10K	Ω 20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100 ΚΩ	Open
Rate	d										
Currei	nt 10%	6 20%	30%	40%	50%	60%	70%	80%	90%	100%	95-108%
Percent	age										

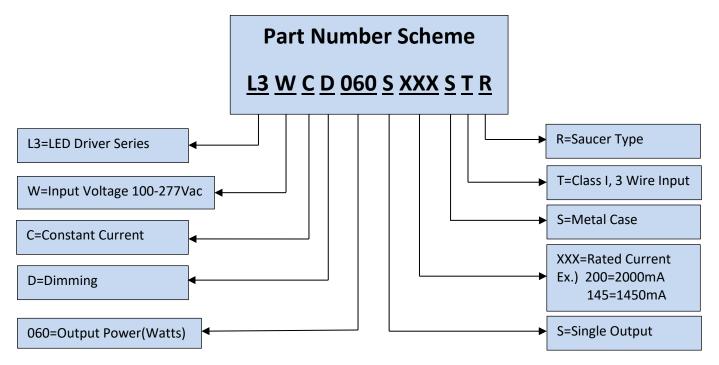
■ Dimming Curve



Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA
October 15, 2019

7/8





*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.