

■ Features

- Power Rating: 53-56W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(1000mA-1600mA)
- Efficiency to 88%
- OCP, SCP
- IP65
- 5-year warranty
- Surge Protection(L-N:2KV, LN-GND:4KV)



■ Application

- Indoor or outdoor 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
L12WC-055S160PS	100~277Vac	54.4W	20-34V	1600mA	1600mA	87%	UL/cUL
L12WC-055S150PS	100~277Vac	54W	20-36V	1500mA	1500mA	87%	UL/cUL
L12WC-055S140PS	100~277Vac	53.2W	20-38V	1400mA	1400mA	87%	UL/cUL
L12WC-055S130PS	100~277Vac	54.6W	20-42V	1300mA	1300mA	88%	UL/cUL
L12WC-055S120PS	100~277Vac	54W	28-45V	1200mA	1200mA	88%	UL/cUL
L12WC-055S110PS	100~277Vac	55W	28-50V	1100mA	1100mA	88%	UL/cUL
L12WC-055S100PS	100~277Vac	56W	28-56V	1000mA	1000mA	88%	UL/cUL

■ Technical Data

Input voltage range	100~277Vac
Frequency	47-63Hz
Power factor	> 0.9 under 100~277Vac input @Full load condition
Inrush current	50A @230Vac
Max input current	0.6A @Full load condition
THD	15%@full load
Current Precision	± 5% at full load condition
Efficiency	87%-88%
Ripple current	10%@full load
Overshoot & Undershoot Response	±10% Input@277Vac; Output@ Max. Load
Setup time	2S 100Vac input full load

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■ Technical Datta(cont.)

Output Voltage Rise Time	100ms
Protection	Over current protection: Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.
Operating temperature	-30 to 55°C
Storage temperature	-40 to 85°C
Temperature Coefficient	90°C
Operating humidity	20% to 90%
Storage humidity	20% to 90%
MTBF	50,000 hours at (~70°C case temp)
Cooling	Air Cooling
Burn-in Test	Input voltage applied to the LED driver 230Vac, Output Full load@ 40°C; 4 hours Burn-in Test
Length (L)	5.5" (139mm)
Width (W)	1.8" (45mm)
Height (H)	1.14" (29mm)

Note: all parameters are rated under the condition of 25°C, Ripple current is subject to load.

■ Safety Compliance

UL/cUL	UL8750 /UL1310
Dielectric Strength	Input to Output: 3000Vac 1 min. leakage current ≤5mA
Dielectric Strength	Input to GND: 1500Vac 1 min. leakage current ≤5mA
Isolation Independence	Input to Output: DC 500V 10MΩmin @ ambient temperature

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.

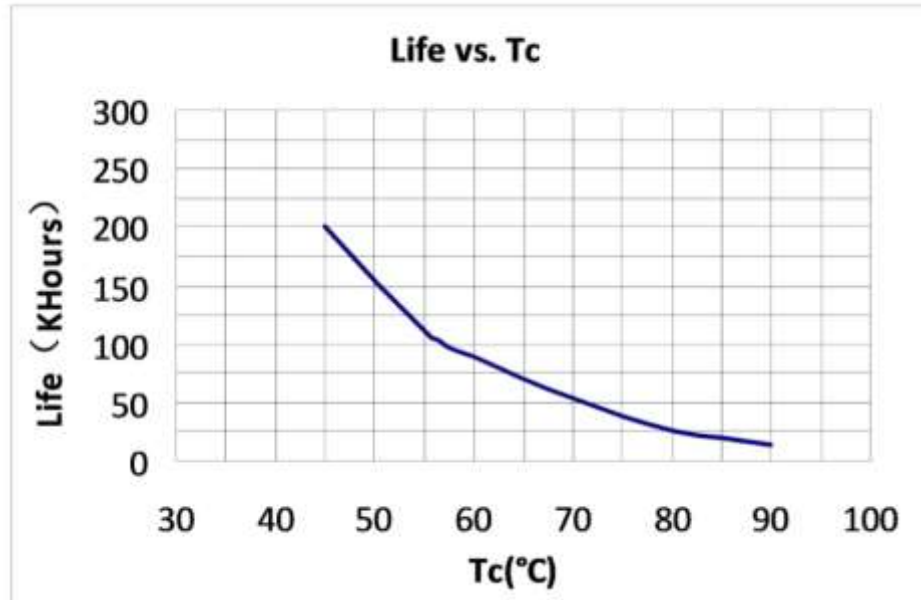
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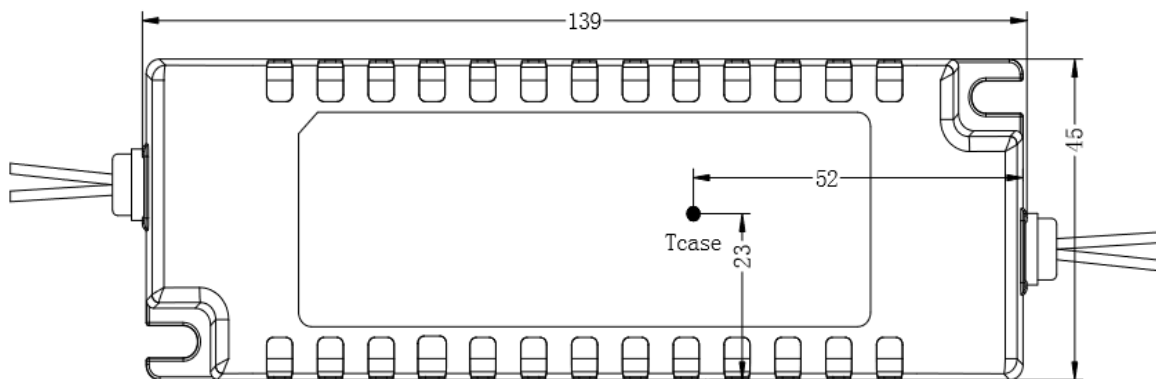
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■ **Lifetime vs Case Temperature/min**



■ **Mechanical Diagram**



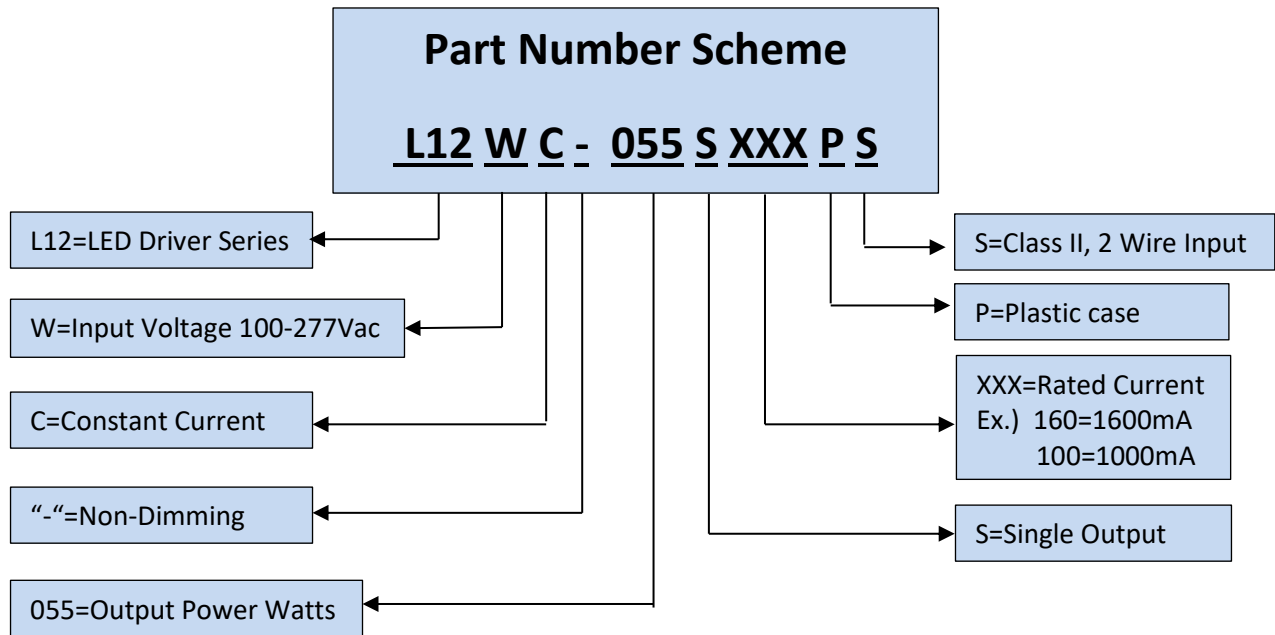
Wire Specifications	
Input	12", UL 1015 #18AWG (Black and White)
Output	12", UL 1015 #18AWG (Red and Black)

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