



75 Watt — LA75W Series Small & Efficient Series

CONSTANT CURRENT LED DRIVER WITH ONE 75 Watt OUTPUT

US & CN LED DRIVER CLASS 2

Part Number: LA75W Series
Product mark: YG
Manufactory: Shenzhen YIGUANG technology co., Ltd
Driving mode: Constant current & voltage with isolation
Technology: Single-Stage PFC & PSR technology
Output Power: 75 Watt
Input voltages: 100 to 277 VAC (maximum : 90-305 VAC)
Efficiency: Up to 92%
Suitable: For LED lamp driver
Warranty: 5 years



Enclosure



Size \ Unit	Inch	Millimeter
Case Length	6.10	155.00
Case Width	2.10	53.50
Case Height	1.39	35.50

Special Features:

1. UL8750, UL1310 Class 2, CSA22.2 safety compliant
2. FCC 47CFR PART 15 compliant
3. rated lifetime 50,000 hours, Tc 75°C
4. Meet the RoHs directive, IP65 compliant
5. Suitable for high-temperature, high-dust location
6. Inrush Current Limiting Circuitry: AC line to line 1.5 kV, eliminates circuit breaker tripping, switch arcing and relay failure
7. Single output, ranged from 11Vdc up to 257Vdc
8. Active PFC reduces power consumption
9. Isolation between primary and secondary

Environmental:

1. Operating temperature: Tc 90°C (max), Reference Ta -40 to +60°C
2. Storage temperature range: -40 to +85°C
3. Humidity (non-condensing): 5% - 95%RH
4. Cooling: free air cooling convection
5. Vibration frequency: 5-55Hz/2g, 30 minutes; impact resistance: 1g/s
6. MTBF @ 75°C (Tc): 480,000 hours @ full load per MIL-217F notice 2
7. EMC:
Compliant to CISPR 22 CLASS B, CISPR 14-1 CLASS B, GB4343.1-2003, GB17625.1-2003
 - a. Continuous interference voltage test conforming to GB4343-2003+A1, CISPR 14-1: 1997, EN55014-1:1997-5
 - b. Intermittent interference voltage test conforming to GB4343-2003+A1, CISPR 14-1: 1997, EN55014-1:1997-5
 - c. Interference power test conforming to GB4343-2003+A1, CISPR 14-1:1997, EN55014-1:1997-6
 - d. Harmonic currents test conforming to GB4343-2003+A1, CISPR 14-1:EN 61000-3-2:1995
 - e. RF Electromagnetic Field Immunity test conforming to GB/T13926.3, IEC61000-4-3, PrEN55014-2 Section 6.5
 - f. Electrical fast transient/burst immunity test conforming to GB/T13926.4, IEC61000-4-4, PrEN55014-2 section 6.2
 - g. Voltage dips and short interrupts immunity test conforming to IEC61000-4-11
 - h. Voltage variations immunity test conforming to IEC61000-4-11
 - i. Electrostatic discharge immunity test conforming to IEC61000-4-11

Electrical Specifications:

- Input voltage range: 100 to 277 VAC (maximum voltage range: 90-305 VAC)
- Frequency: 47- 63Hz
- Power factor: > 0.90 at full load, total harmonic distortion(THD): <20% more than 80% load

- Inrush current: <60A at 25°C, 120V, cold start
- Input current: 0.80A at 120V
- Efficiency: 86% (typical), 92% (maximum), at full load, 220V
- Maximum output power: 75W
- Constant current regulation: $\pm 3\%$ over input line variation, load regulation accuracy: $\pm 4\%$
- Start-up time: <1 s, output overshoot: <10%
- Leakage current: 300uA (typical)
- Hold up time: half cycle
- Output over-voltage, over-current, short circuit protection: auto-recovery

Safety & Compliance:

UL8750, UL1310 Class 2, CSA22.2, FCC, IP65 compliant



75W Constant current versions:

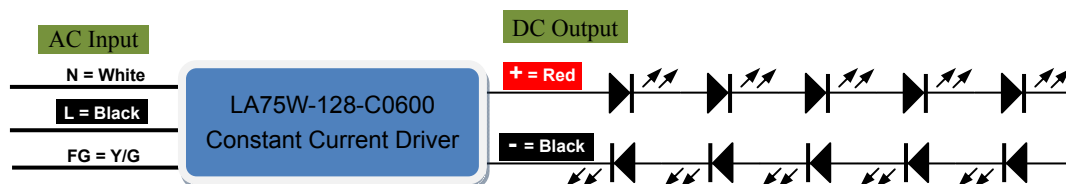
No.	Part Number	US Class 2	CN Class 2	Output Voltage Range	Output Constant Current	Current Accuracy	Power Factor	Output Power	Max. Eff.
1	LA75W-257-C0300	No	No	154~257 Vdc	300 mA	$\pm 5\%$	0.90	75W	92%
2	LA75W-200-C0350	No	No	120~200 Vdc	350 mA	$\pm 5\%$	0.90	75W	92%
3	LA75W-128-C0600	No	No	77~128 Vdc	600 mA	$\pm 5\%$	0.90	75W	91%
4	LA75W-85-C0900	No	No	51~85 Vdc	900 mA	$\pm 5\%$	0.90	75W	91%
5	LA75W-64-C1200	No	No	38~64 Vdc	1200 mA	$\pm 5\%$	0.90	75W	90%
6	LA75W-56-C1400	Yes	Yes	34~56 Vdc	1400 mA	$\pm 5\%$	0.90	75W	90%
7	LA75W-48-C1600	Yes	Yes	30~48 Vdc	1600 mA	$\pm 5\%$	0.90	75W	89%
8	LA75W-43-C1750	Yes	Yes	26~43 Vdc	1750 mA	$\pm 5\%$	0.90	75W	89%
9	LA75W-36-C2100	Yes	Yes	22~36 Vdc	2100 mA	$\pm 5\%$	0.90	75W	88%
10	LA75W-28-C2675	Yes	Yes	17~28 Vdc	2675 mA	$\pm 5\%$	0.90	75W	88%
11	LA75W-24-C3125	Yes	Yes	14~24 Vdc	3125 mA	$\pm 5\%$	0.90	75W	87%
12	LA75W-18-C4200	Yes	Yes	11~18 Vdc	4200 mA	$\pm 5\%$	0.90	75W	87%

75W Constant Voltage versions:

No.	Part Number	US Class 2	CN Class 2	Output Voltage	Maximum Output Current	Voltage Accuracy	Power Factor	Output Power	Max. Eff.
1	LA75W-36	Yes	Yes	36 Vdc	2080 mA	$\pm 5\%$	0.90	75W	88%
2	LA75W-24	Yes	Yes	24 Vdc	3120 mA	$\pm 5\%$	0.90	75W	87%
3	LA75W-12	Yes	Yes	12 Vdc	6250 mA	$\pm 5\%$	0.90	75W	86%

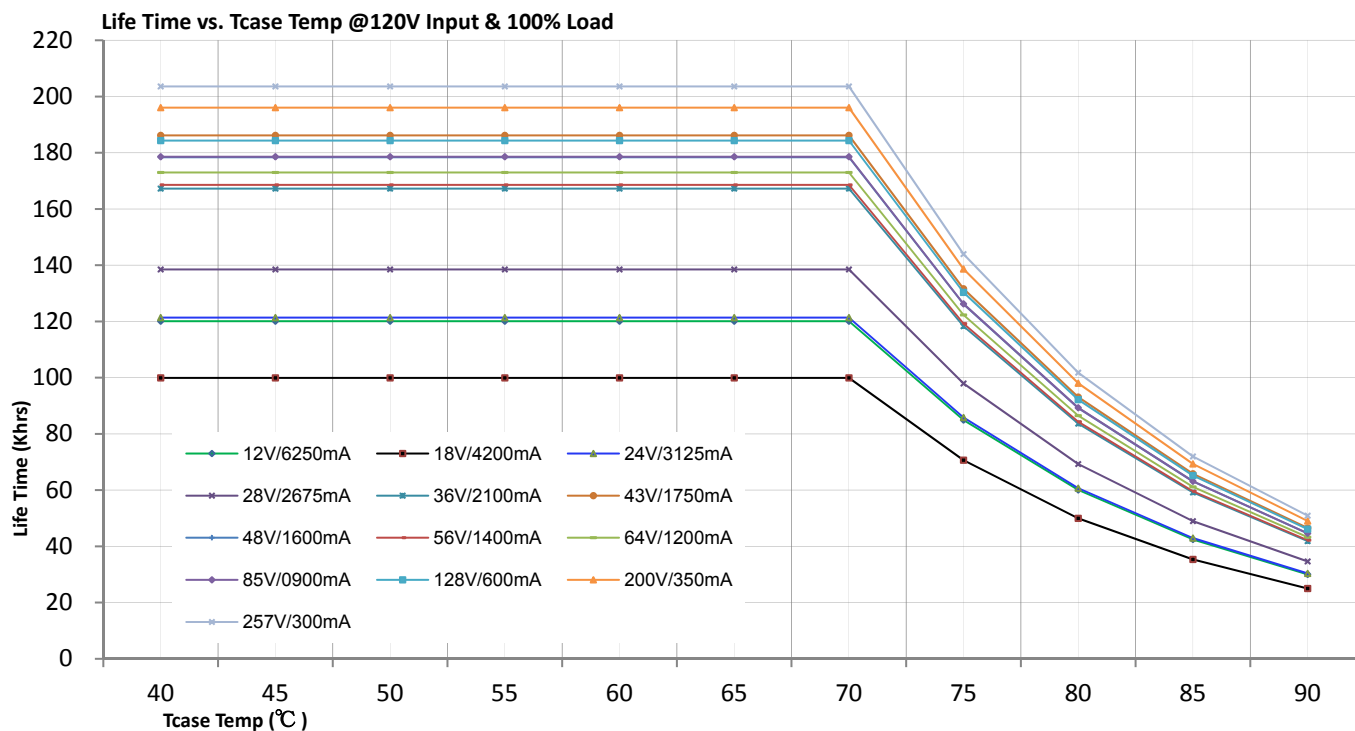
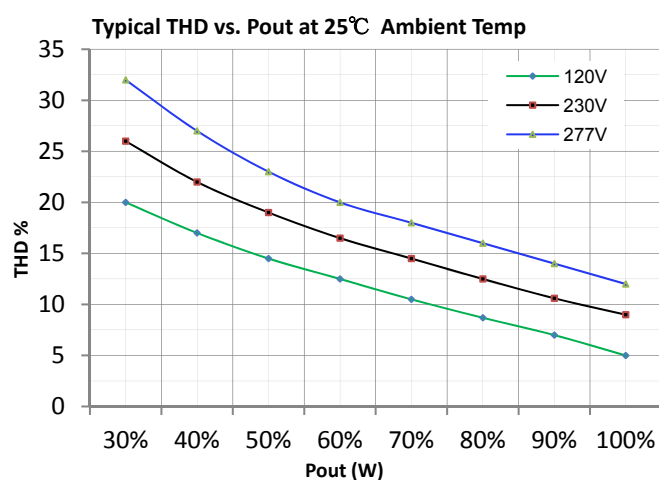
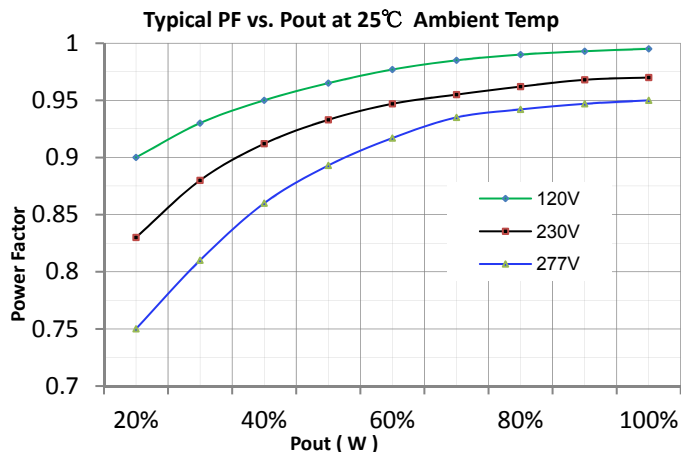
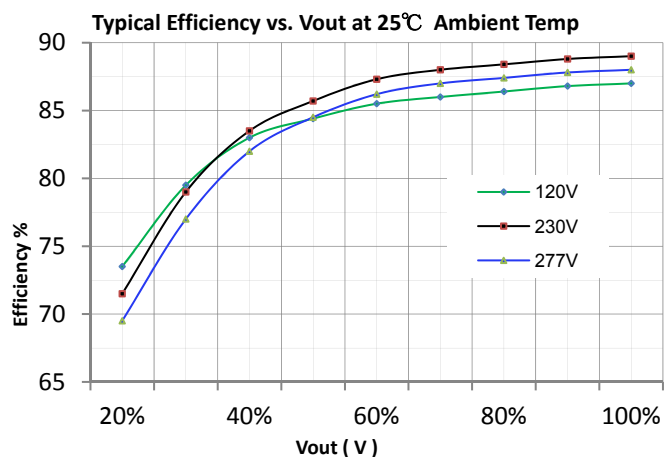
Note: Typical power factor & maximum efficiency measured at 220VAC input, full load.

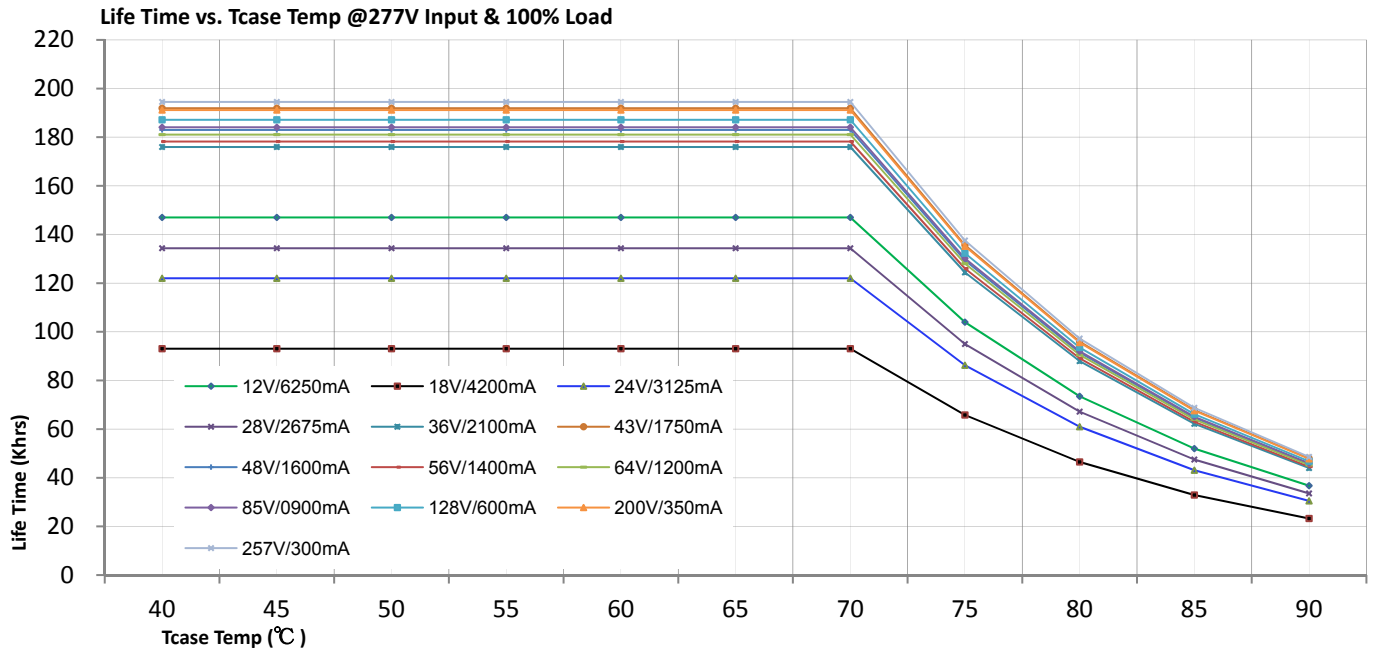
Typical Applications:



LED forward voltage: $V_F = 3.0V \sim 3.5V$.

LED forward current $I_F = 600 \text{ mA}$.





Installation:

ABS + PC plastic shell;

Used with thermal conductivity and flame retardant glue potting;

AC input for connection the three cores ANSI/UL1015/AWG18 high temperature more than 105 °C wire;

Cable length: 150mm, stripping on the tin: 10mm.

Where: L — black wire, N — white wire, FG — yellow/green;

DC output for connection the two core ANSI/UL1569/AWG18 high temperature more than 105 °C wire;

Cable length: 150mm, stripping on the tin: 10mm.

Where: DC+ — red, DC- — black;

This product has two $\Phi 4.5$ mm mounting holes.

Order ID:

P/N: LA75W-128-C0600

Description: 75W, 128Vdc voltage max, constant current 600mA, constant current mode.

Product size:

