# 8W ALTEA AND ALFA DRIVER DATASHEET

IP20 SELV RoHS

## PRODUCT DESCRIPTION

- Leading and trailing edge dimming LED constant current independent driver
- ±5% output current accuracy(under maximum load)
- 90° C Maximum case operation temperature(Tc-point [1])
- Reliable, Class II, SELV output according EN 61347
- Permissible AC cable 0.75-2.5mm² wire gauge, 3.5~10mm PVC jacket diameter
- Grow wire tested 650° for 30S and 850° for 5S
- Operating temperature [1]: -25° C ~ +45° C, the humidity: 20% ~ 85%
- Over 50,000 hrs nominal lifespan at Tc=70° C
- Protection for output open load, short circuits, over voltage and over temperature
- Five-year factory guarantee and lifetime technical support [1]

"[1]" Detailed data please refer to the "Specification" table .

## PARAMETERS

| MODEL | | 8W Triac dimming LED Driver |
|---|---|---|
| Output | Output voltage | 30-40V |
| | Rated current | 180mA |
| | Maximum power | 7.2W |
| | Current tolerance | ±5% |
| | Dimming Range | Triac dimming |
| | Ripple voltage [2] | 1.02Vp-p |
| | Ripple current | 100mAp-p |
| | Line regulation | ±5% |
| | Load regulation | ±5% |
| | Starting time | <500mS |
| | Turn off time | <1.0S |

| | | | |
|---|---|---|---|
| | Noise [3] | | <22dB |
| Input | Voltage | | Rated:220-240Vac; Range:198-264Vac; |
| | Frequency | | Rated:50-60Hz; Range:47-63Hz; |
| | Power factor | | ≥0.9 @ 36V Output voltage |
| | I-THD [4] | | ≤20% |
| | Efficiency [5] | | ≥80% |
| | AC current | | 80mA max. |
| | Inrush current [6] | | 4A |
| | Inrush current time | | 100uS |
| | Leakage current | | <1mA |
| | ON/OFF switches cycle | | >100,000 |
| | Stand by power | | ≤0.5w |
| Protection | Over current | | Constant current limiting, recovers automatically after fault condition is removed |
| | Over voltage | | Shut down output voltage, with auto-recovery or re-power on to recovery |
| | Over temperature | | Shut down output voltage, recovers automatically after temperature goes down |
| | Short circuit | | Constant current limiting, recovers automatically after fault condition is removed |
| Safety & EMC | Safety standards | | EN61347-2-13; Design refer to TUV EN60950-1, TUV EN61347-1 |
| | Withstand voltage | | I/P-O/P:3KVac I/P-FG:1.5KVac O/P-FG：500Vdc |
| | Isolation resistance | | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25℃/75%RH |
| | EMC emission [7] | | EN55015B, EN55022 Class B, EN61000-3-2, EN61000-3-3 |
| | EMC immunity | | EN61000-4-2, EN61547, EN55024, EN-61000-4-5 Surge immunity Line-Earth: Line-Earth:1KV, L Line- N Line:0.5KV |
| Environment | Ambient temperature range[9] | | -25°C ~ +50°C |
| | Max. case temperature(tc)[10] | | 90°C |
| | Relative humidity range | | 20% ~ 85%RH |
| | Storage temperature range | | -30°C ~ +75°C |
| Max. No. of PSUS(Driver supply unit) on miniature circuit breaker(MCB) | MCB TYPE B | 10A | 81pcs @ full load |
| | | 13A | 130pcs @ full load |
| | | 16A | 162pcs @ full load |
| | MCB TYPE C | 10A | 93pcs @ full load |
| | | 13A | 150pcs @ full load |
| | | 16A | 187pcs @ full load |
| Others | Dimming control mode | | Triac dimming |
| | Lifetime(hrs)@tc=60℃ | | >60,000H |
| | MTBF [MIL-HDBK-217F(ta=25℃)] | | 187.2K Hrs min |
| | Glow wire test | | 850°C for 5S; 650°C for 30S |
| | Dimension L x W x H | | 118 x 45 x 25mm |
| | Warranty years | | 5 years |

"2" Ripple voltage is measured at 20MHz of bandwidth by using a 12'' twisted pair-wire terminated with a 100nF & 47uF parallel capacitor.

"3" The flicker for frequencies of 200 Hz or below, input voltage 230Vac , at 100% output current level and 20% output current level with dimmer attached, output current ripple is defined as [(Imax - Imin)/( Imax + Imin)] * 100%, (CEC-400-2016-018-FS, Title 24 part 6 JA8).

"4" The noise of LED driver is defined as test data when driver tested in noise room with 50~60dB environment, and been hang in 1ft

(305mm) inside chamber.

"5" Rated voltage input, rated output current, maximum output current.

"6" The typical efficiency is test data of output current at input @230Vac with 36V output voltage, maximum output current.

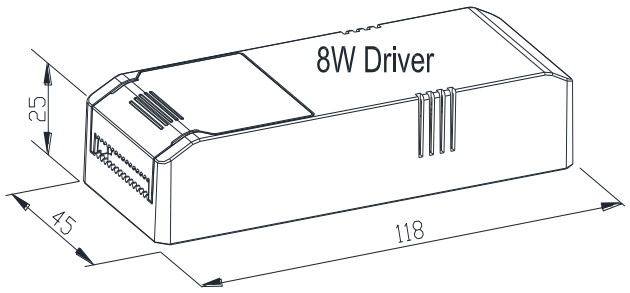
"7" The inrush current is test data of 230Vac input, cold start, measured at input current peak.

"8" The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC directive on the complete installation again.

"9" For other than independent use, higher ta of the control gear possible as long as highest allowed tc point temperature is not exceeded.

"10" The tc is defined as the highest permissible temperature which may occur on the outer surface of the power under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range, refer to "output power vs temperature" section.

## MECHANICAL




| Dimension | Gross Weight | Net Weight | Qty/Carton |
|---|---|---|---|
| 320x275x180mm | 9.0kg | 7.6kg | 50pcs |