# Lighting and Power Technologies LLC

| Specification Sheet | Product | 240W 2100mA Adjustable current driver with 1-10V dimming | version: 2.1 | Page:1/2 |
|---|---|---|---|---|
| | Model | HQLPC240/123/2100AP/DE1 | Date | 2019-8-15 |

**Product picture**



**ADJUSTABLE CURRENT LED DRIVER WITH 1-10V DIMMING**

■Features：
· Universal AC input:100～277VAC.
· Built-in active PFC function.
· Efficiency over 90%.
· Protections：Short circuit, Over temperature protection
· IP65，input/output ports are connected to the wire.
· Constant current output, output current can be adjusted by external potentiometer.
· With 1-10V/PWM dimming function .
· Suitable for LED lighting applications.
· Conforms to IEC and GB lighting equipment safety regulations.
· Independent installation,installed in indoor/outdoor.

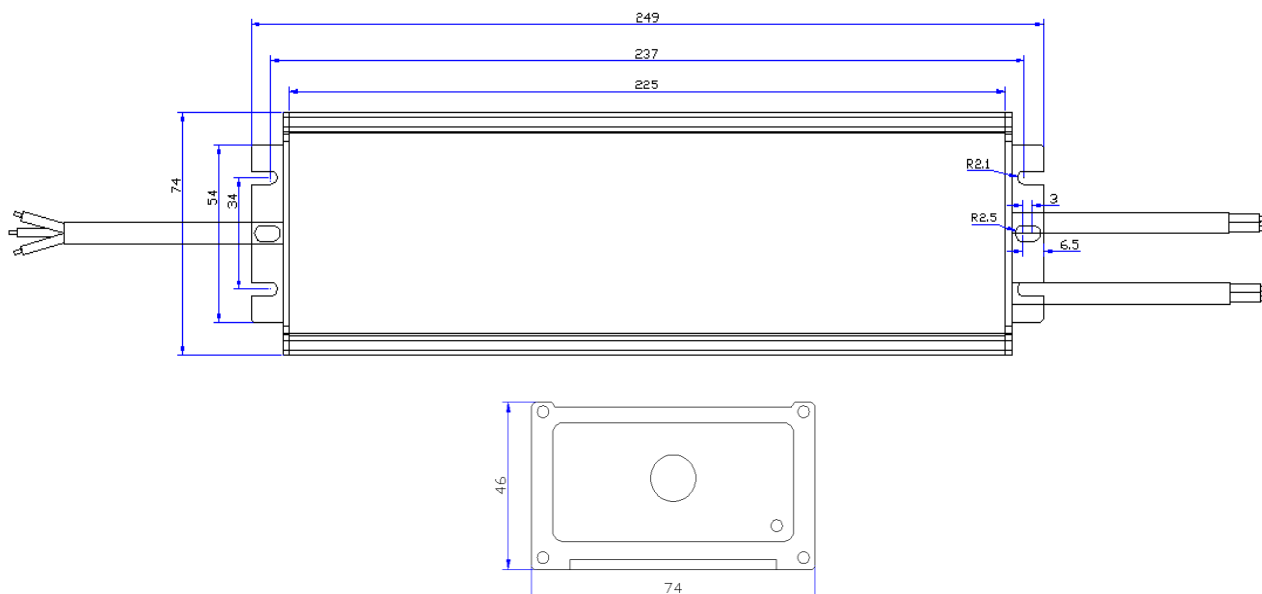## SPECIFICATION

| | | |
|---|---|---|
| **INPUT** | Voltage range | Rated voltage range:100～277VAC , (Input voltage range:100～180VAC, 70% power use) |
| | Frequency range | 47～63Hz |
| | Power factor | PF≥0.95 (100%full load) |
| | Efficiency(Typ.) | ≥90%　Test condition: Input Voltage 277VAC,100% full load. |
| | AC current | ≤2.10A/100VAC；≤1.37A/220VAC |
| | Start up inrush current(Typ.) | cold start：60A Max. /277VAC |
| | Leakage current | Contact current ≤0.7mA at 277VAC, Protect conductor current ≤2mA at 277VAC |
| | THD | <20% |
| | Input the dimming signal | 1-10V/PWM(10V/100-1KHz) |
| **OUTPUT** | Output channel | 1 channel |
| | Output current and voltage | 1050～2100mA (Adjustable Current) |
| | | 115～228Vdc |
| | Rated power | 240W(200～277VAC)　　　　168W（100～180VAC） |
| | Tolerance | ±5% |
| | Dimming Range | 10%-100% |
| | Output ripple current | ≤10%（100% full load） |
| | Output overshoot / undershoot current | ≤10%,when power open and shut down |
| | Start up time | 0～1S,100VAC ；0～0.5S,277VAC |
| | Short circuit protection | Products without damage, when abnormal condition removed , re-power on to recover. |
| | Over temperature protection | Protection shell maximum temperature 110 ℃, over temperature protection startup, shut down output, can be automatically restored after the temperature is |
| **ENVIRONMENT** | Working TEMP. | -40～+50℃（100%full load） |
| | Max. CASE TEMP. | 90℃（100%full load） |
| | Working humdity | 20～95%RH，non-condensing |
| | Storage TEMP.,humidity | -40～+80℃，10～95%RH |
| | Temp. coefficient | ±0.03%/℃（0～50℃） |
| | Vibration | 10～500Hz，5G 12min/1 cycle，period for 72min.each along X、Y、Z axes |
| **SAFETY&EMC** | Safety standards | GB19510.1/IEC61347-1；GB19510.14/IEC61347-2-13 |
| | Withstand voltage | I/P-O/P:3.75KVAC 60S(Leakage curent<100mA) I/P-FG:1.875KVAC O/P-FG:1.5KVAC ,60S(Leakage curent<10mA) |
| | Isolation resistance | I/P-O/P,I/P-FG,O/P-FG:>100MΩ at 500VDC/25℃/70%RH |
| | EMC emission | GB17625.1/IEC61000-3-2 ;GB17743/CISPR15 |
| | EMC immunity | GB/T 18595/IEC61547 |
| | | Surge immunity: L-N: 6KV; L,N-G: 6KV |
| **LIFE** | | 50,000 hours at Tc=80℃ |
| **SIZE** | | 249×74×46mm(L×W×H),find below dimension. |
| **WEIGHT** | | |
| **NOTE** | | 1.All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25℃ of ambient temperature . 2.The LED 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 . 3.Detail warranty terms please refer to warranty statement. |

FM73045C

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■SIZE　　　　　　　　UNIT：mm　　　　TOERLANCE：±1mm



■WIRE

Input wire：3×1.0 rubber wire，Line length 350±20mm，decortication 30mm，endothelial 5mm solder；

Signal input wire: 2×1.0 rubber wire，Line length 300±20mm，decortication 30mm，endothelial 5mm solder；

Output wire：2×1.0 rubber wire，Line length 300±20mm，decortication 30mm，endothelial 5mm solder；