

### Radio Frequency Controlled LED Driver

50W (max) RF Controlled Multifunction Constant Current Driver with Remote Control Options



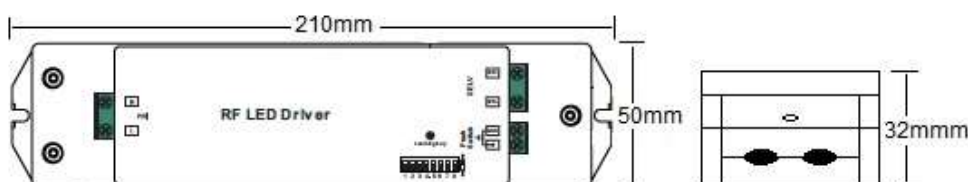
### Product Overview

The radio frequency LED driver can be controlled via a selection of remote control devices. Each control device can switch a number of drivers on and off as well as allowing dimming control. The remote controls are available as fixed mains powered or battery powered portable devices offering single or multiple channel control, so that a single controller can operate up to four different sets of drivers and luminaires. Each driver can be paired with up to eight different control devices. The driver may also be controlled via a simple PUSH button control. The driver is suitable for use with a wide range of LED luminaires and has selectable constant current output.

### Features

- Dimmable LED driver with RF control
- Max. output power 50W
- 1 channel 250-1500mA constant current output
- Class II, IP20
- High power factor and efficiency
- Compatible with a variety of single RF remote controls
- Suitable for indoor LED lighting applications
- Radio Frequency : 868/869.5/916.5/434mhz
- Short circuit, over voltage and overload protection

### Dimensions



### Driver Specifications

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| <b>Order Code</b>                       | <b>CYC050RFC25-150</b>                  |
| Input Voltage                           | 200-240 Vac                             |
| Input Frequency                         | 50-60 Hz                                |
| Protection                              | Class II IP20 independent driver        |
| Maximum Load (see below)                | 50 W                                    |
| Output Voltage                          | 15-48 Vdc                               |
| Output Current                          | 250-1500 mA                             |
| Maximum Input Power                     | 57 W (1.5 W stand-by)                   |
| Maximum Input Current*                  | 270 mA                                  |
| Power Factor (Typ.)                     | >0.9                                    |
| Efficiency (Typ.)                       | 87 %                                    |
| Dimming Mode                            | Remote Control or PUSH Dimming          |
| Power Factor Correction                 | Single Stage                            |
| Inrush Current*                         | 1.2 A (max)                             |
| Inrush Pulse Time                       | <8 µs                                   |
| Dimensions L x W x H                    | 210 mm x 50 mm x 32 mm                  |
| Input Connection                        | Screw terminals 0.75-1.5mm <sup>2</sup> |
| Output Connection                       | Screw terminals 0.75-1.5mm <sup>2</sup> |
| Max. Case Temperature (t <sub>c</sub> ) | 85 °C                                   |
| Ambient Temperature (t <sub>a</sub> )   | -20 to 45 °C                            |
| Leakage Current (3KVac)                 | 0.9mA                                   |
| Turn On Time*                           | 0.9 s                                   |
| Turn Off Time *                         | 0.3 s                                   |
| Hold On Time                            | 0.2 s                                   |

| Output Current | Output Voltage | Max. Load | Max. Input Power | Max. Input Current* | Power Factor* | Efficiency* |
|----------------|----------------|-----------|------------------|---------------------|---------------|-------------|
| 250 mA         | 15-48 Vdc      | 12.0 W    | 15.2 W           | 90 mA               | 0.72          | 79.2 %      |
| 300 mA         | 15-48 Vdc      | 14.4 W    | 17.7 W           | 100 mA              | 0.76          | 81.2 %      |
| 350 mA         | 15-48 Vdc      | 16.8 W    | 20.3 W           | 110 mA              | 0.78          | 82.9 %      |
| 400 mA         | 15-48 Vdc      | 19.2 W    | 22.7 W           | 120 mA              | 0.81          | 84.7 %      |
| 450 mA         | 15-48 Vdc      | 21.6 W    | 25.2 W           | 130 mA              | 0.83          | 85.8 %      |
| 500 mA         | 15-48 Vdc      | 24.0 W    | 27.7 W           | 140 mA              | 0.85          | 86.7 %      |
| 600 mA         | 15-48 Vdc      | 28.8 W    | 32.8 W           | 160 mA              | 0.88          | 87.9 %      |
| 700 mA         | 15-48 Vdc      | 33.6 W    | 37.9 W           | 180 mA              | 0.90          | 88.6 %      |
| 800 mA         | 15-48 Vdc      | 38.4 W    | 43.2 W           | 200 mA              | 0.91          | 89.0 %      |
| 900 mA         | 15-48 Vdc      | 43.2 W    | 48.4 W           | 220 mA              | 0.92          | 89.3 %      |
| 1000 mA        | 15-48 Vdc      | 48.0 W    | 53.7 W           | 240 mA              | 0.93          | 89.4 %      |
| 1100 mA        | 15-46 Vdc      | 50.6 W    | 56.5 W           | 260 mA              | 0.94          | 89.5 %      |
| 1200 mA        | 15-41 Vdc      | 49.2 W    | 55.2 W           | 250 mA              | 0.94          | 89.2 %      |
| 1300 mA        | 15-38 Vdc      | 49.4 W    | 55.6 W           | 250 mA              | 0.94          | 88.9 %      |
| 1400 mA        | 15-35 Vdc      | 49.0 W    | 55.2 W           | 260 mA              | 0.94          | 88.7 %      |
| 1500 mA        | 15-33 Vdc      | 49.5 W    | 56.1 W           | 260 mA              | 0.94          | 88.4 %      |

\*at 230 V, 50 Hz, Full Load

### Remote Control Specifications

| Order Code   | CSWRF01                                                                           | CSWRF02                                                                           | CSWRF03                                                                            | CSWRF04                                                                             | CSWRF05                                                                             |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |  |  |  |  |  |
| Description  | Single channel wall mount rotary switch                                           | Single channel wall mount push-button switch                                      | Four channel wall mount touch switch                                               | Single channel desk top rotary switch                                               | Four channel handheld remote control                                                |
| Power Supply | CR2430 Battery                                                                    | CR2430 Battery                                                                    | 200-240 Vac 50/60 hz                                                               | CR2025 Battery                                                                      | CR2025 Battery                                                                      |
| Dimensions   | 86 x 86 x 27 mm                                                                   | 86 x 86 x 14 mm                                                                   | 86 x 86 x 29 mm                                                                    | 96 x 65 x 74 mm                                                                     | 136 x 39 x 11 mm                                                                    |