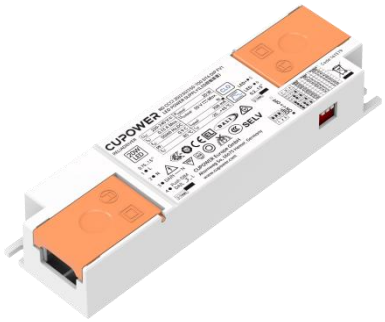
# RD CCCI 20/230/350-700 DT6 DIP FV1

Art. 161379

## Product features

- Isolated adjustable power LED driver
- Support DALI-2, Push Dimming
- Output current 350…700 mA by DIP Switch adjust
- Current output default value 100%
- Max. output power 20W
- For luminaries of protection class I, II
- 5-year warranty
- DC emergency
- Constant lumen output (CLO)



## Product specifications

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| Output current | Input voltage | Output voltage | Efficiency @full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|---|---|---|---|---|---|---|
| 350 mA | 220…240 Vac<br>220…240 Vdc | 9…42 Vdc | 86% at 600 mA<br>85% at 700 mA | ± 5% | > 0.9<br>(Output power > 9 W @ 230 Vac 50 Hz) | 133×38×21 |
| 400 mA | | | | | | |
| 450 mA | | | | | | |
| 500 mA | | | | | | |
| 550 mA | | | | | | |
| 600 mA | | | | | | |
| 650 mA | | | | | | |
| 700 mA | | | | | | |

## Electrical specifications

**Mains voltage supply**

| | |
|---|---|
| Rated input voltage range | 220…240 Vac |
| Max. input voltage range | 198...264 Vac |
| Rated frequency range | 0/50/60 Hz |
| Max. input current | 0.13A @ 230 Vac |

**Battery operation**

| | |
|---|---|
| DC voltage range | 220...240 Vdc |
| Max. DC voltage range | 176…276 Vdc |

**Protection against voltage peaks**

| | |
|---|---|
| Withstand voltage | I/p-O/p: 3.75 KVac, < 5 mA 60 sec, I/p-DA: 1.5 KVac,< 5 mA 60 sec;<br>O/p-DA: 1.5 KVac, < 5 mA 60 sec |
| Mains surge immunity | L-N 1 kV |

**Total harmonic distortion (THD)**

| | |
|---|---|
| At rated input voltage range @ full load | 10% |



Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
BailLutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer – Germany

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| **Output data** | |
|---|---|
| Output current tolerance | ± 5% at rated input voltage range |
| No load output voltage | 50 Vdc |
| Ripple output current | 5% (ripple = peak/average total 100 Hz) |
| Output PstLM | ≤ 1 at full load @ rated input voltage |
| Output SVM | ≤ 0.4 at full load @ rated input voltage |

| **Protection functions output side** | |
|---|---|
| Overvoltage protection | The output voltage is less than or equal to 48 V |
| Overpower protection | The output power is less than or equal to 23 W |

| **Dimming operation and interface** | |
|---|---|
| Standby power consumption | ≤ 0.5 W |
| Dimming mode | DALI-2, push dimming |
| Dimming current range | 0.1%...100% |
| **Connection terminals** | |
| Connection terminal type | 45° push in terminal |
| Wire cross section | Input wire: 0.75...1.5 mm²; Output wire: 0.2...1.5 mm² |
| Wire stripping length | 8…9 mm |

| **Degree of protection** | |
|---|---|
| Protection rating | IP20 |

| **Operating data** | |
|---|---|
| Output current range | Output current 350…700mA by DIP Switch adjust |
| Default current | 350 mA |
| Output voltage range | 9…42 Vdc |

**Circuit breaker / Inrush current**

| MCB loading quantity | Inrush current Ipeak: 4.66 A | | | Inrush current Twidth: 40 µs | |
|---|---|---|---|---|---|
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 92 | 92 | 147 | 147 |

## Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.



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## Environmental specifications

| | |
|---|---|
| Operating temperature | -20…+45°C |
| Storage temperature | -25…+85°C |
| Working humidity | 10%…90% |
| Store humidity | 5%…95% |
| Lifetime | at Tc 85°C: 50,000 hrs @ 230 Vac; at Tc 75℃: 100,000 hrs @ 230Vac |
| Maximum Tc temperature | 85°C |

## Safety & EMC compliance

| ENEC+CE |
|---|
| EN 61347-1:2015/A1:2021 |
| EN 61347-2-13:2014/A1:2017 |
| EN IEC 62384:2020 |
| EN IEC 55015:2019/A11:2020 |
| EN IEC 61547:2023 |
| EN IEC 61000-3-2:2019/A1:2021 |
| EN 61000-3-3:2013/A2:2021 |
| EN62493:2015/A1:2022 |

| CCC |
|---|
| GB 17625.1-2022 |
| GB/T 17743-2021 |
| GB 19510.1-2009 |
| GB 19510.14-2009 |
| |
| |
| |
| |

| SAA |
|---|
| AS/ 61347.2.13:2018 |
| AS/NZS 61347.1:2016+ A1 Lamp Control Gear- Part 2-13 |
| |
| |
| |
| |
| |
| |

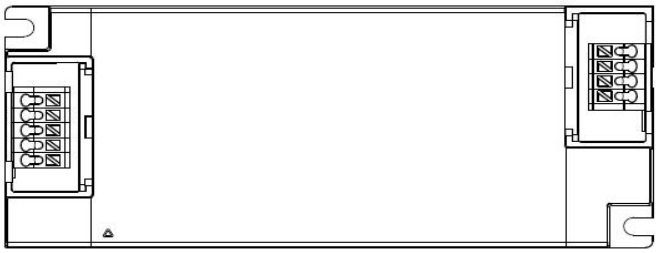
## Dimensions

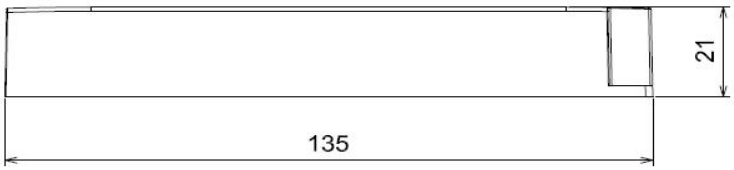
**Housing dimensions**

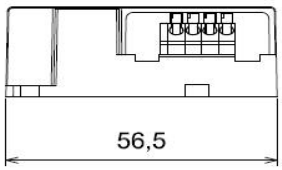
| | |
|---|---|
| Length (L) | 133 mm |
| Width (W) | 38 mm |
| Height (H) | 21 mm |
| Weight | 0.0825 kg |

**Packaging details**

| | |
|---|---|
| Packing units | 86 pcs |
| Carton size | L352*W276*H138 mm |
| Weight | 7.7 kg |








Hunan Xiezhen Electronics Co., Ltd.
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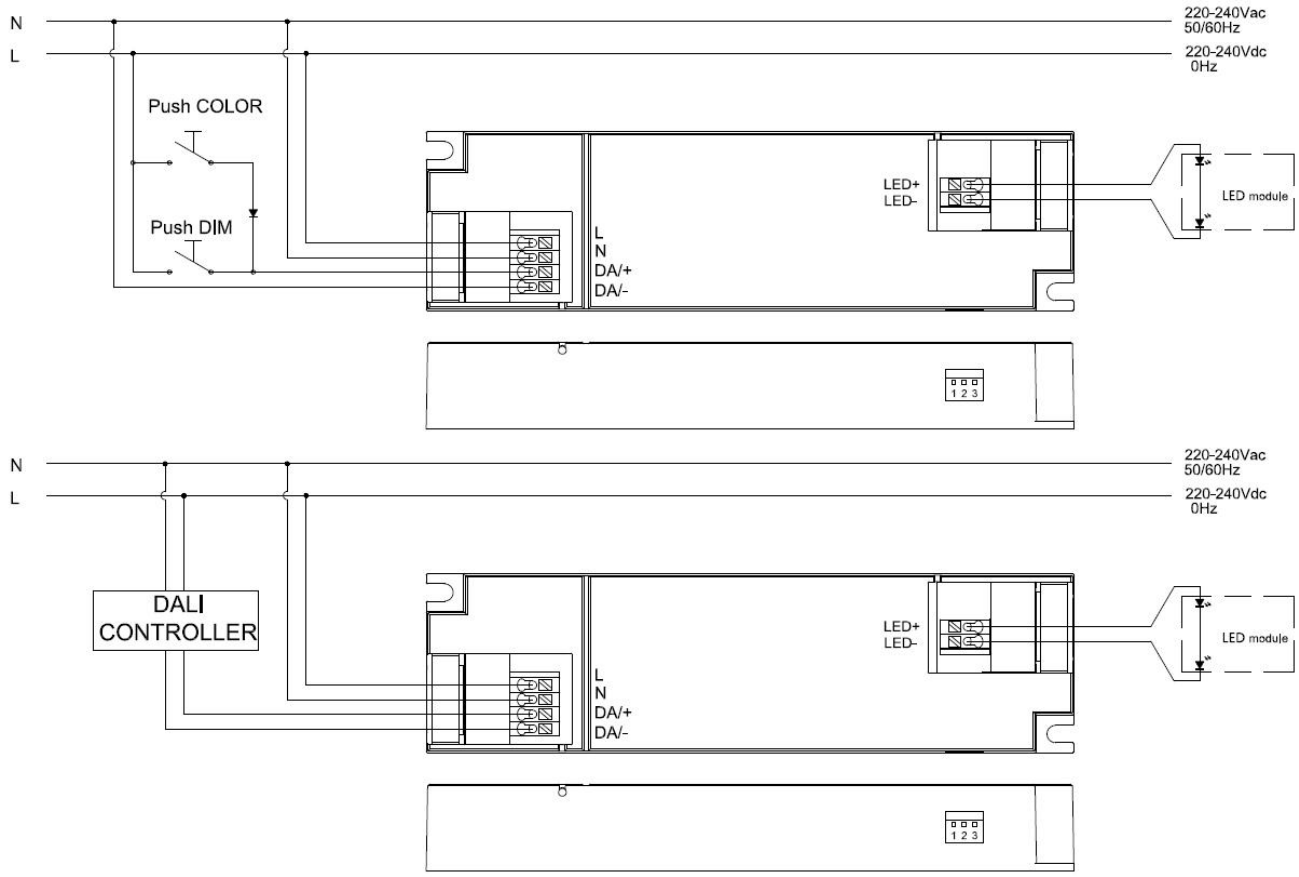
## Wiring diagram




- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5…10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.



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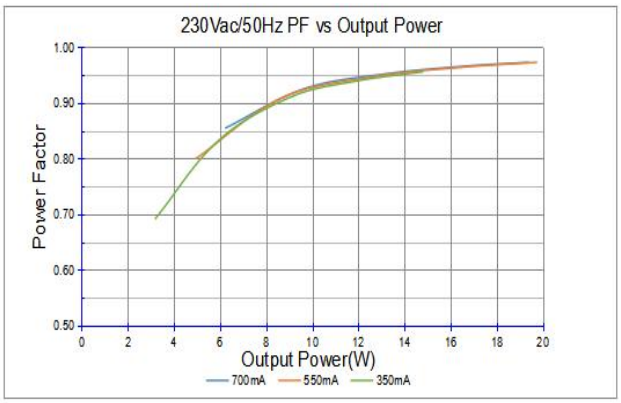
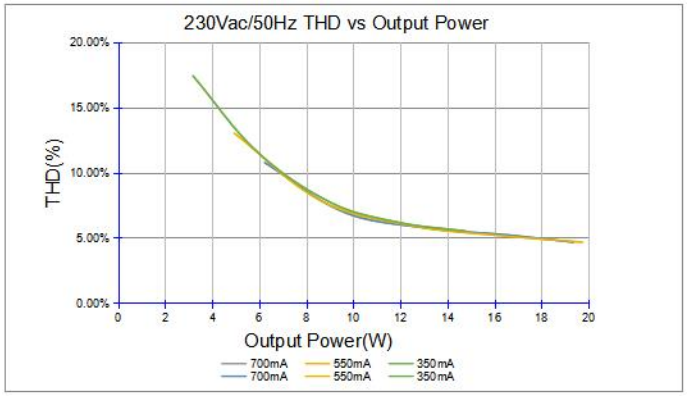
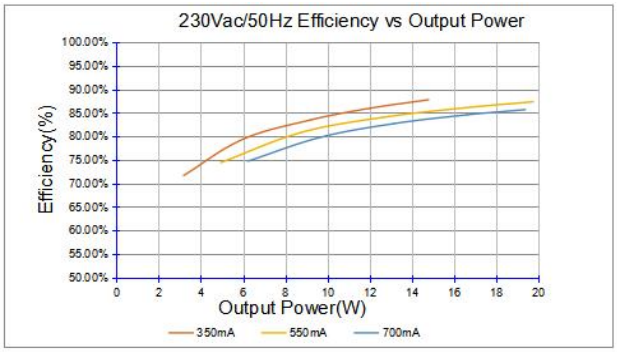
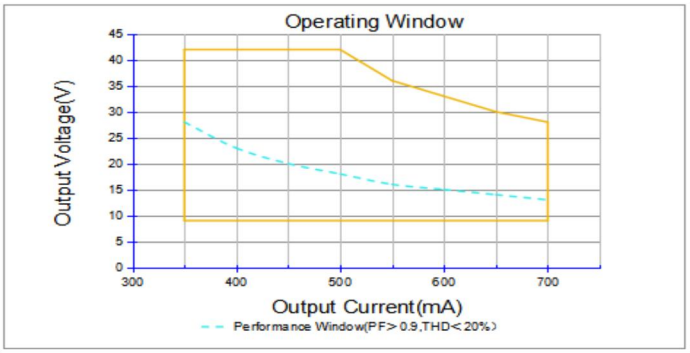
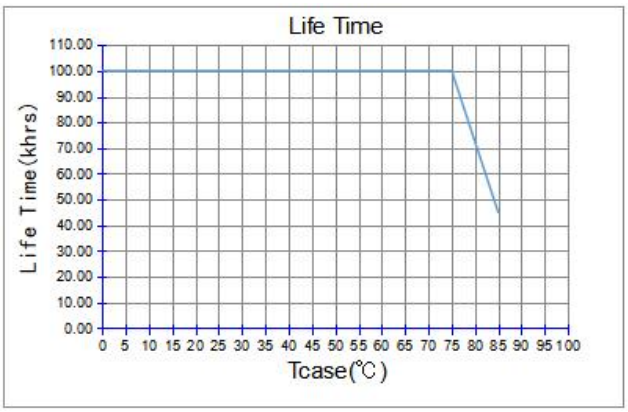
## Technical information




**ADJUSTABLE OUTPUT CURRENT WITH DIP-SWITCH**

| Vout | Pout | Iout | 1 | 2 | 3 |
|---|---|---|---|---|---|
| 9…42 Vdc | 14.7 W | 350 mA | - | - | - |
| 9…42 Vdc | 16.8 W | 400 mA | - | - | ON |
| 9…42 Vdc | 18.9 W | 450 mA | - | ON | - |
| 9…40 Vdc | 20 W | 500 mA | - | ON | ON |
| 9…36 Vdc | 19.8 W | 550 mA | ON | - | - |
| 9…33 Vdc | 19.8 W | 600 mA | ON | - | ON |
| 9…30 Vdc | 19.5 W | 650 mA | ON | ON | - |
| 9…28 Vdc | 19.6 W | 700 mA | ON | ON | ON |



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