

## Making Smart Lighting

## Simple and Reliable



## 2020 NEW LED DRIVERS



### 800W Compact LED Drivers

- 180-528Vac Input
- Great Surge Immunity 10kV
- Isolated Dimming Interface
- 100k Hour Lifetime



### 400W 12V Constant Voltage Drivers

- 90-305Vac Universal Input
- Great Surge Immunity 10kV
- IP67 Waterproof



### DALI2/DALI/0-10V/PWM/12Vaux/0.1% Dimming 6 in 1 Slim Driver

- 90-305Vac Universal Input
- Great Consistency in Dimming
- 0.1% Minimum Dimming Level
- 12V 300mA Auxiliary Power



### Tunable White Driver

- 30W Output Power
- Bluetooth Dimmable, min. 1% dimming level
- Tunable White
- Class II Driver



Bluetooth®



### Wireless Powerpack

- Supply Voltage: 120-277Vac
- Bluetooth/Zigbee Mesh
- Threaded Nipple for Junction Box Wiring
- 0-10V or DALI or UART Output to LED Driver
- Internal Relay with Zero Cross Turn On







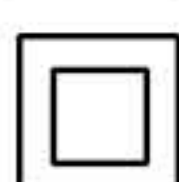



ZigBee®

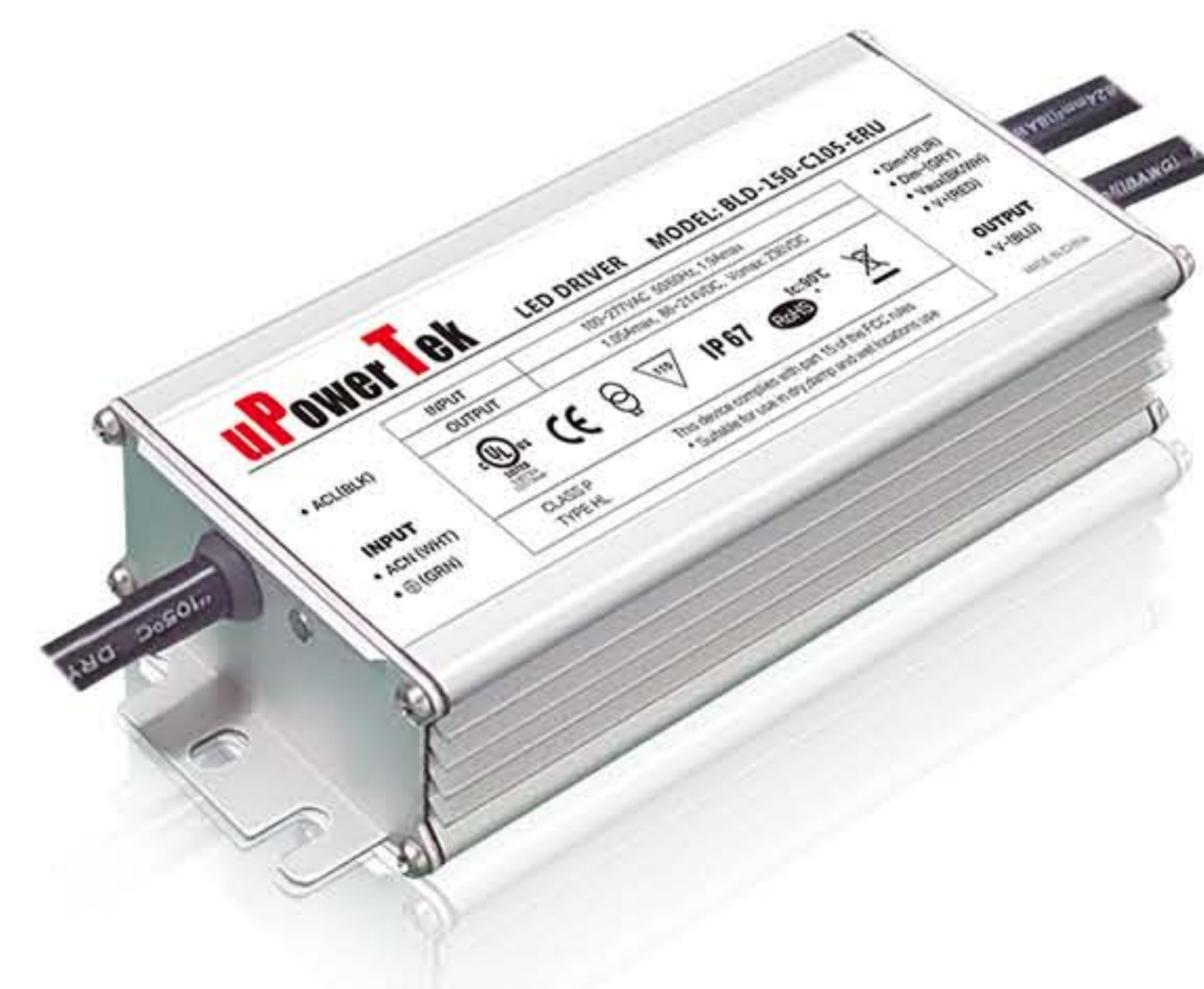


Bluetooth®




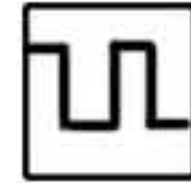


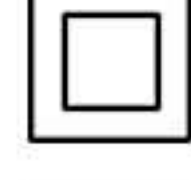


# Waterproof Constant Current LED Drivers

-  Great Surge Immunity 10kV
-  Airset™ NFC Programmability
-  Dim Off with 0.5W Standby Power
-  12V 300mA Auxiliary Power
-  Class II Model Available
-  IP67 Waterproof
-  DALI 2 Dimmable
-  Isolated 0-10V/PWM Dimming Options



| Model Number | Input Voltage Range / Vac | Output Power / Watt | Certification     | Output Current Range / mA | Dimension (L*W*H)mm |
|--------------|---------------------------|---------------------|-------------------|---------------------------|---------------------|
| BLD-050      | 90 – 305                  | 50                  | UL/ENEC/CB/CE/CCC | 350 – 2100                | 131*68*33.5         |
| BLD-060      | 90 – 305                  | 60                  | UL/ENEC/CB/CE/CCC | 700 – 2800                | 131*68*33.5         |
| BLD-075      | 90 – 305                  | 75                  | UL/ENEC/CB/CE/CCC | 700 – 2800                | 131*68*33.5         |
| BLD-096      | 90 – 305                  | 96                  | UL/ENEC/CB/CE/CCC | 500 – 4200                | 161*68*33.5         |
| BLD-096-NV   | 176 – 305                 | 96                  | UL/ENEC/CB/CE/CCC | 500 – 4200                | 131*68*33.5         |
| BLD-120      | 90 – 305                  | 120                 | UL/ENEC/CB/CE/CCC | 700 – 3800                | 161*68*33.5         |
| BLD-120-NV   | 176 – 305                 | 120                 | UL/ENEC/CB/CE/CCC | 700 – 3800                | 131*68*33.5         |
| BLD-150      | 90 – 305                  | 150                 | UL/ENEC/CB/CE/CCC | 700 – 6300                | 161*68*33.5         |
| BLD-200-CP   | 90 – 305                  | 200                 | UL/ENEC/CB/CE/CCC | 700 – 6300                | 174*68*38.5         |
| BLD-240      | 90 – 305                  | 250                 | UL/ENEC/CB/CE/CCC | 700 – 6900                | 216*68*33.5         |
| BLD-320-CP   | 90 – 305                  | 320                 | UL/ENEC/CB/CE/CCC | 1050 – 9000               | 225*68*38.5         |
| BLD-400      | 90 – 305                  | 400                 | UL/ENEC/CB/CE/CCC | 1400 – 9900               | 224*90*41.5         |
| BLD-400-HP   | 176 – 305                 | 480                 | UL/ENEC/CB/CE/CCC | 1400 – 9900               | 224*90*41.5         |
| BCD-075      | 90 – 305                  | 75                  | CE                | 500 – 2800                | 272.4*36*30         |
| BCD-096-NV   | 176 – 305                 | 96                  | CE                | 500 – 2800                | 272.4*36*30         |
| BSD-050      | 90 – 305                  | 50                  | UL/CE             | 700 – 1050                | 105.3*33*30         |
| BSD-075      | 90 – 305                  | 75                  | UL/CE             | 700 – 1400                | 120.5*45.5*30       |
| BSD-096      | 90 – 305                  | 96                  | UL/CE             | 700 – 2100                | 120.5*45.5*30       |
| BSD-150      | 90 – 305                  | 150                 | UL/CE             | 1050 – 3800               | 213.2*43.4*30       |
| TLD-160      | 180 – 528                 | 160                 | UL/ENEC/CB/CE/CCC | 700 – 6300                | 225*68*35.5         |
| TLD-200      | 180 – 528                 | 200                 | UL/ENEC/CB/CE/CCC | 700 – 6300                | 225*68*35.5         |
| TLD-240      | 180 – 528                 | 250                 | UL/ENEC/CB/CE/CCC | 700 – 6900                | 225*68*35.5         |
| TLD-320      | 180 528                   | 320                 | UL/ENEC/CB/CE/CCC | 1050 – 7000               | 240*90*41.5         |
| TLD-400      | 180 528                   | 400                 | UL/ENEC/CB/CE/CCC | 1400 – 9900               | 240*90*41.5         |

# Constant Voltage LED Driver

-  Great Surge Immunity 10kV
-  PWM Output Frequency >1kHz
-  2% Minimum Dimming Output / Dim Off with 0.5W Standby
-  12V 300mA Auxiliary Power
-  Class II Model Available
-  IP67 Waterproof
-  0-10V/PWM/DALI/DMX Dimmable



| Model Number | Input Voltage Range / Vac | Output Power / Watt | Output Voltage / Vdc | Certification     | Dimension (L*W*H)mm |
|--------------|---------------------------|---------------------|----------------------|-------------------|---------------------|
| BLD-060      | 90 - 305                  | 60                  | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 131*68*33.5         |
| BLD-075      | 90 - 305                  | 75                  | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 131*68*33.5         |
| BLD-096      | 90 - 305                  | 96                  | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 161*68*33.5         |
| BLD-096-NV   | 176 - 305                 | 96                  | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 131*68*33.5         |
| BLD-120      | 90 - 305                  | 120                 | 24/36/48             | UL/ENEC/CB/CE/CCC | 161*68*33.5         |
| BLD-120-NV   | 176 - 305                 | 120                 | 24/36/48             | UL/ENEC/CB/CE/CCC | 131*68*33.5         |
| BLD-150      | 90 - 305                  | 150                 | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 161*68*33.5         |
| BLD-200-CP   | 90 - 305                  | 200                 | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 174*68*38.5         |
| BLD-240      | 90 - 305                  | 240                 | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 216*68*33.5         |
| BLD-320-CP   | 90 - 305                  | 320                 | 24/36/48             | UL/ENEC/CB/CE/CCC | 225*68*38.5         |
| BLD-400      | 90 - 305                  | 400                 | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 224*90*41.5         |
| BLD-400-HP   | 176 - 305                 | 480                 | 24/36/48             | UL/ENEC/CB/CE/CCC | 224*90*41.5         |
| <hr/>        |                           |                     |                      |                   |                     |
| TLD-240      | 180 - 528                 | 240                 | 12/24/36/48          | UL/ENEC/CB/CE/CCC | 225*68*38.5         |
| TLD-400      | 180 - 528                 | 400                 | 24/36/48             | UL/ENEC/CB/CE/CCC | 240*90*41.5         |

### Model Number Definition BLD-aaa-Vbbb-XYZ

| XY= | Dimming Method | Programmable | 12Vaux | Dim-off |
|-----|----------------|--------------|--------|---------|
| NN  | -              | -            | -      | -       |
| DN  | 0-10V          | -            | -      | -       |
| EN  | 0-10V          | -            | √      | √       |
| TR  | Time           | √            | -      | -       |
| DR  | 0-10V/PWM/Time | √            | -      | -       |
| ER  | 0-10V/PWM/Time | √            | √      | √       |
| AN  | DALI           | -            | -      | √       |
| AR  | DALI           | √            | -      | √       |
| MR  | DMX            | √            | -      | √       |

aaa=Output Power  
 bbb=Output Voltage or Current  
 Z=U, UL cable with ground wire  
 Z=S, VDE cable / Class I  
 Z=D, VDE cable / Class II

\*Contact sales for non-programmable models

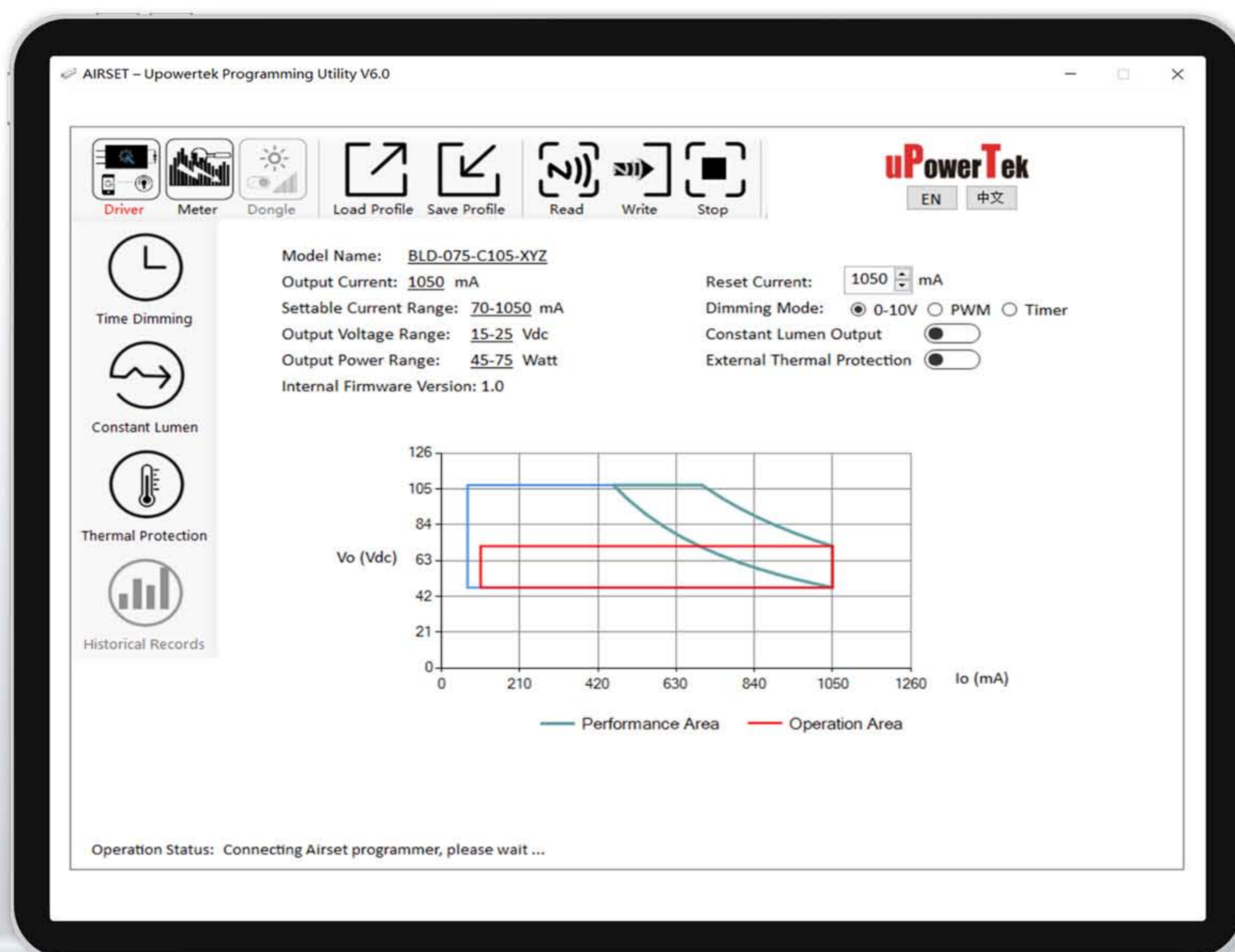
# 0.1% Dimmable Slim Type LED Driver

- 5 in 1 Dimmable (DALI/0-10V/PWM/Time/Resistor)
- Isolated Dimming Interface
- 0.1% CCR (Constant Current Reduction Mode) Dimming
- Wide NFC Programming Range
- Wide Range Output Current Setting with Constant Power
- 12V 300mA Auxiliary Power
- +/-1% Accuracy Hybrid Control

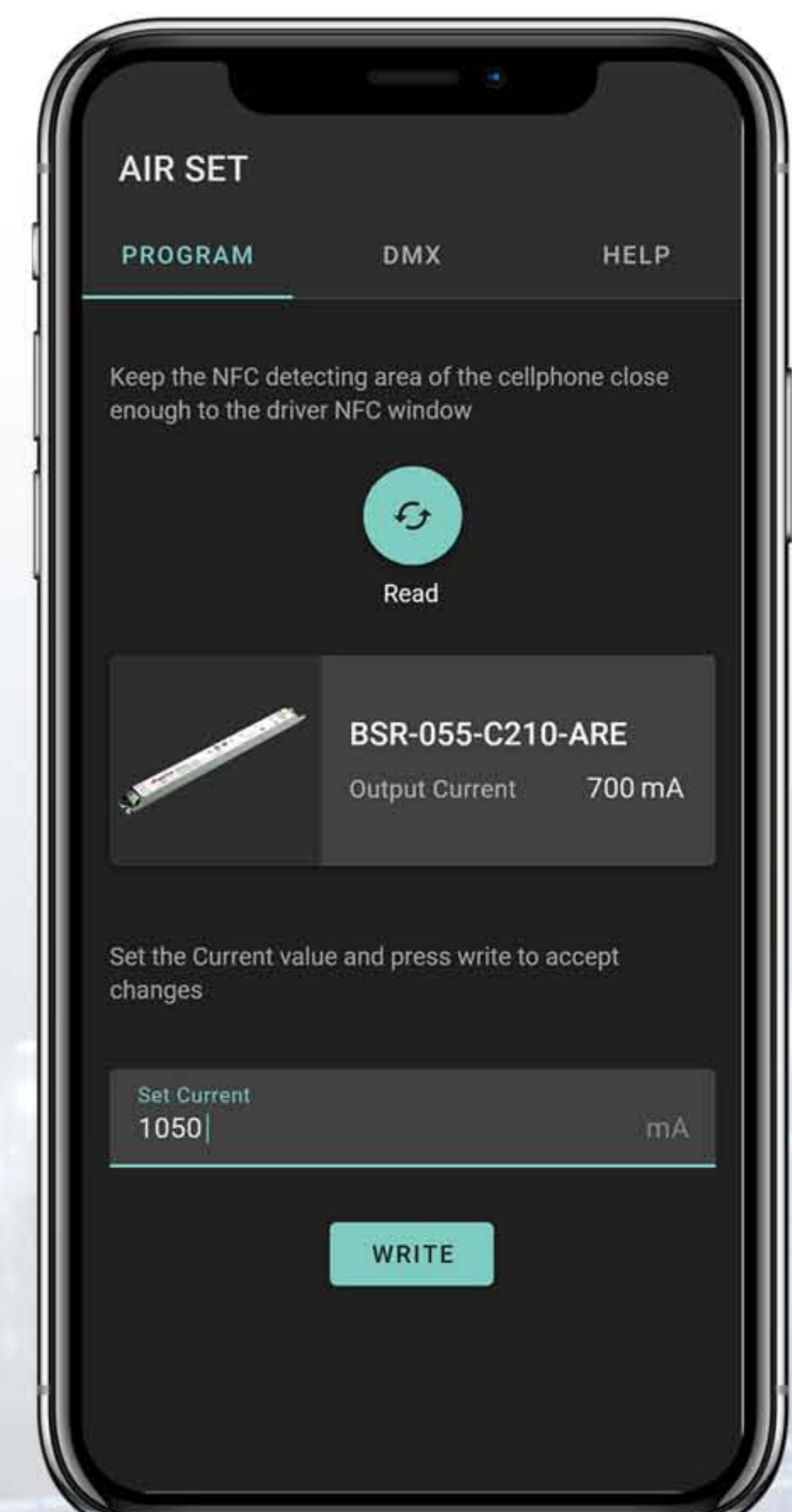


| Model Number | Input Voltage Range / Vac | Output Power / Watt | Output Current mA | Output Voltage Vdc | Certification     | Dimension (L*W*H)mm |
|--------------|---------------------------|---------------------|-------------------|--------------------|-------------------|---------------------|
| BSR-055-C105 | 90 – 305                  | 55                  | 70 – 1050         | 70 – 1050          | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-055-C210 | 90 – 305                  | 55                  | 105 – 2100        | 105 – 2100         | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-080-C140 | 90 – 305                  | 80                  | 105 – 2800        | 105 – 2800         | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-080-C210 | 90 – 305                  | 80                  | 140 – 4200        | 140 – 4200         | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-055-V012 | 90 – 305                  | 55                  | 12                | 12                 | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-055-V024 | 90 – 305                  | 55                  | 24                | 24                 | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-055-V048 | 90 – 305                  | 55                  | 48                | 48                 | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-080-V024 | 90 – 305                  | 80                  | 24                | 24                 | UL/ENEC/CB/CE/FCC | 378*30*21           |
| BSR-080-V048 | 90 – 305                  | 80                  | 48                | 48                 | UL/ENEC/CB/CE/FCC | 378*30*21           |

## Programming by computer



## Programming by cellphone



## Upwerek Products for Grow Light



### Slim Line LED Driver - IP67

- Supply Voltage: 90-305Vac or 176-305Vac
- Great Surge Immunity 10kV
- 100,000Hour Life @ Tc=75°C, 7 Year Warranty
- 0-10V/PWM/Time/DALI/DMX Dimming options
- Dim Off with 0.5W Standby Power, 12V 300mA Auxiliary Power
- Compact Size:274\*36\*30mm
- Slim Line Packaging for Linear Grow Lights



| Product Series | Output Power | Output Current |
|----------------|--------------|----------------|
| BCD-075        | 75W          | 500 - 2800mA   |
| BCD-096        | 96W          | 500 - 2800mA   |

### Aluminium Casing LED Driver - IP67

- Supply Voltage: BLD 90-305Vac / TLD 180-528Vac
- Great Surge Immunity 10kV
- Low Inrush Current
- 100,000Hour Life @ Tc=75°C
- 7 Year Warranty @ Tc<=75°C
- Airset™ NFC Programmability
- +/-2% Output Current Accuracy (Programmable Model)
- 0-10V/PWM/Time/DALI/DMX Dimmable
- Class II Model Available
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384

| Product Series | Output Power | Output Current |
|----------------|--------------|----------------|
| BLD-075        | 75W          | 500 - 2800mA   |
| BLD-150        | 150W         | 700 - 6300mA   |
| BLD-240        | 250W         | 700 - 4200mA   |
| BLD-320        | 320W         | 1050 - 7000mA  |
| BLD-400        | 400W         | 1400 - 9900mA  |
| TLD-160        | 160W         | 700 - 6300mA   |
| TLD-240        | 250W         | 700 - 4200mA   |
| TLD-320        | 320W         | 1050 - 7000mA  |
| TLD-400        | 400W         | 1400 - 9900mA  |
| TLD-600        | 600W         | 2800-13000mA   |
| TLD-800        | 800W         | 3000-20000mA   |

### Slim Line Built-in LED Driver - IP20

- Supply Voltage: 176-440Vac
- 100,000Hour Life @ Tc=75°C, 7 Year Warranty
- Airset™ NFC Programmability
- 0-10V/PWM/Time/DALI Dimmable, Isolated Dimming Input
- Dim Off with 0.5W Standby Power, 12V 300mA Auxiliary Power
- SELV Output
- Slim Line Packaging Suitable for Linear Grow Lights



| Product Series | Output Power | Output Current |
|----------------|--------------|----------------|
| SVR-100        | 100W         | 500 - 2800mA   |
| SVR-150        | 150W         | 700 - 6300mA   |
| SVR-240        | 240W         | 700 - 4200mA   |
| SVR-320        | 320W         | 1050 - 7000mA  |

# Wireless Control Lighting Solution



## AC & DC Sensor



- PIR Sensor
- Bluetooth Mesh
- Threaded Nipple for Junction Box Wiring
- 0-10V or DALI or UART Output to LED Driver
- Internal Relay with Zero Cross Turn On

## AC & DC Powerpack



- Supply Voltage: 120-347Vac or 12-24Vdc
- Bluetooth Mesh
- Threaded Nipple for Junction Box Wiring
- 0-10V or DALI or UART Output to LED Driver
- Internal Relay with Zero Cross Turn On

## Wall Switch



- Bluetooth Mesh
- Adjustable Time Delay
- Wireless Dimmer
- Wireless PIR Sensor
- Setup by Cellphone Easily

## Remote Control



- Bluetooth Mesh
- Support Scenes/Schedules
- Android/iOS/Windows

# uPowerTek

Founded in 2016, Upowertek is a Sino-US joint venture state-level high-tech enterprise. The company's core team is a group of senior engineers who have been deeply involved in the lighting and switching power supply industry for many years. Through continuous research and development, more than 20 patents and intellectual property rights have been accumulated in just a few years. The company was awarded the Hangzhou Eagle Business Plan in 2017 and became a member of the DiiA Association in 2019. The company always takes product quality and reliability as its first choice, and continues to introduce new products such as NFC programmable LED driver, high power density LED driver, DALI2 power supply and 0.1% stroboscopic-free LED driver to win the market and customers' favor.



## R&D Team

The core team members of Upowertek are from leading companies in the industry such as Philips, Delta and Inventronics. The main members are graduated from Zhejiang University in Power Electronics. Every year, the company's R&D investment accounts for more than 10% of the total revenue. It is committed to continuous innovation and gains market by bringing valuable products to customers in the fierce market competition.



• DALI Probit



• EMI Test



• 10kV 5kA Surge Test



• -60°C and 70°C test

## Factory Tour

The production site consists of 2 floors with over 3000m<sup>2</sup> where top brand SMT with SPI, wave soldering machine and AOI system are utilized to make sure of great soldering quality. And the final products are 100% 4 hour aged and tested with auto-test machine. The test data can be tracked on the cloud.



## Global Contacts



China Head Office [www.upowertek.com](http://www.upowertek.com)



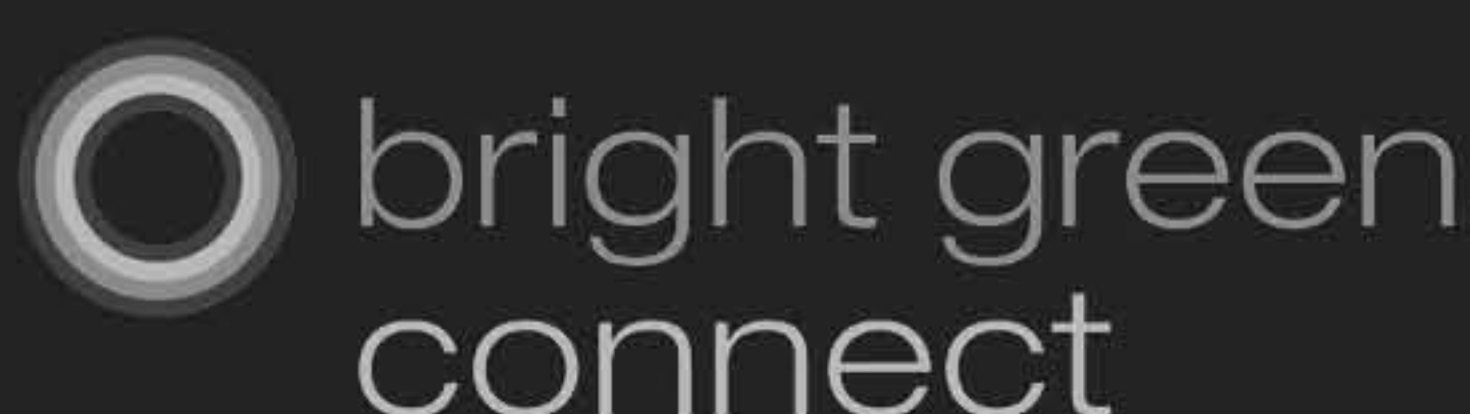
Germany [www.neumueller.com](http://www.neumueller.com)



Italy [www.universal-science.eu](http://www.universal-science.eu)



South Asia [www.quadrep.com.sg](http://www.quadrep.com.sg)



UK [www.brightgreenconnect.com](http://www.brightgreenconnect.com)



Spain [www.koalacomponents.com](http://www.koalacomponents.com)