Lighting the future with LED technology
Flexible and reliable range of LED drivers
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<td>Xitanium programmable point drivers</td>
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<td>Xitanium adjustable output current point drivers (SimpleSet)</td>
<td></td>
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<tr>
<td>Xitanium adjustable output current point drivers (Mini)</td>
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<tr>
<td>Xitanium single current point drivers</td>
<td></td>
</tr>
<tr>
<td>CertaDrive single current point drivers</td>
<td></td>
</tr>
<tr>
<td>TrustSight LED emergency drivers</td>
<td></td>
</tr>
</tbody>
</table>
Beyond illumination

At Philips, we have been working hard to illuminate the world since 125 years ago. We are constantly listening to you, our customers and also to our end-users, to drive the latest transformation in LED lamps, in LED electronics and drivers.

By using digital innovation and connecting LED lights to controls, networks, devices and apps, we help our customers create novel lighting experiences with outstanding business results and energy savings.

With our global network, we can offer customers a global perspective supported by strong local know-how and technical expertise. Our experienced team is always on hand to design-in, spec-in and propose solutions best suited to your needs, complete with supply chain considerations and aftersales support.

Whatever your lighting needs, whether it's increased efficiency, quality, cost-effectiveness or environmental benefits, our team can put together the best plan possible for you.

Leaders in LED.
Locally present with a global footprint.
Coming together to service your needs.
Why Philips LED drivers?

Long-lasting and requiring almost no maintenance, LED based light sources are excellent for all lighting applications. However to achieve optimal performance, reliable and robust drivers are needed to match the long lifetime of the LEDs. Driver solutions must always accommodate new generations of LEDs, to also make them ‘future-proof’ for use in more sustainable applications.

1. **Innovation leader in LED drivers technology**
   State-of-the-art portfolio, continuously upgraded and enhanced based on the latest technology.

2. **Reliability and trustworthy service**
   We are a one-stop shop taking care of comprehensive design services, manufacturing needs, supply chain management and customer care concerns.

3. **Excellent portfolio and an efficient platform approach**
   Complete range of drivers from the intelligent to the affordable, and a fast-lane launch approach to address your urgent requirements and specifications.
Application areas

Outdoor drivers
- Flood light for carpark
- Streetlight for roads

Point drivers
- Downlight for hospitality
- Track light for museums
- Spotlight for retail

Linear drivers
- Highbay for warehouses
- Highbay for factories
- Panel light for hospitals

Troffer light for offices
LED drivers portfolio

Our range of Philips LED drivers are categorized for you to match your business requirements with ease. Refer to each range description to find out more.

<table>
<thead>
<tr>
<th>Outdoor drivers</th>
<th>Point drivers</th>
<th>Linear drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong> Statement</td>
<td>Connected and programmable</td>
<td></td>
</tr>
<tr>
<td>S175 S240</td>
<td>L400 L410</td>
<td>L360 L425</td>
</tr>
<tr>
<td>Xitanium full programmable outdoor drivers</td>
<td>Xitanium programmable point drivers</td>
<td>Xitanium programmable linear drivers</td>
</tr>
<tr>
<td><strong>P</strong> Performance</td>
<td>Flexible and future-proof</td>
<td></td>
</tr>
<tr>
<td>L175 L240</td>
<td>L100 L140</td>
<td>L360 L425</td>
</tr>
<tr>
<td>Xitanium lite programmable outdoor drivers</td>
<td>Xitanium adjustable output current point drivers (SimpleSet)</td>
<td>Xitanium adjustable output current linear drivers</td>
</tr>
<tr>
<td><strong>C</strong> Core</td>
<td>Performance and reliability</td>
<td></td>
</tr>
<tr>
<td>Y-can I175</td>
<td>L105 L138</td>
<td>L360 L425</td>
</tr>
<tr>
<td>Xitanium dimmable single current outdoor drivers</td>
<td>Xitanium single current point drivers</td>
<td>Xitanium single current linear drivers</td>
</tr>
<tr>
<td><strong>E</strong> Entry</td>
<td>Foundation</td>
<td></td>
</tr>
<tr>
<td>Y-can I175</td>
<td>L88 L115</td>
<td>L360 L425</td>
</tr>
<tr>
<td>Xitanium fixed single current outdoor drivers</td>
<td>CertaDrive single current point drivers</td>
<td>CertaDrive single current linear drivers</td>
</tr>
</tbody>
</table>

Our range

Philips has designed these main range to help you with your application segmentation, and to facilitate easy selection of the most appropriate drivers to meet your needs.

Xitanium LED Drivers

Xitanium LED drivers are reliable, robust and offer flexibility through the operating window and its smart features. They are designed for indoor and outdoor applications, and are available in various form factors with fixed light output, dimmable and programmable options. Offering the flexibility of carrying out late stage programming and drivers configuration, when required.

Features and benefits

- Lifetime: Up to 100,000 hours lifetime.
- Intelligent, DALI 2.0 compliant, enabling connectivity/Internet of Things (IoT).
- SimpleSet: Wireless configuration technology.
- Best in class performance and energy efficient.
- Comes in spec-grade performance (THD/PF).

CertaDrive LED Drivers

CertaDrive LED drivers are designed to meet the market needs for basic lighting. They are ideal for high volume applications together with CertaFlux LED modules. Offering basic specifications, such as specific current and voltage settings, they come with a standard system warranty for your peace of mind.
In today’s digital age, it is possible to harvest specific, real time lighting information in commercial building spaces, creating an info-transparency whereby informed facility management decisions can be made and optimized resource distribution can be planned.

These lead to money-saving potential for the end-user, when installing intelligent luminaires, built using the latest LED driver technology from Philips.

**Xitanium SensorReady (SR) drivers**

For wireless connected luminaires

To help luminaire manufacturers design and manufacture intelligent luminaires, one of the first and most fundamental building blocks in the Philips Lighting smart electronic components portfolio will be Xitanium LED SR drivers. They are specifically designed to standardize the digital connection between drivers and sensors, including power supply. This enables wireless luminaire-based data collection.

These data can be sent directly to the cloud, or to a network of your choice, once a wireless radio is connected.

**New functionalities**

Intelligent luminaires containing Xitanium LED SR drivers can combine new functionalities such as energy reporting per luminaire with existing energy saving features, such as daylight harvesting, presence detection and per fixture occupancy tracking. The Xitanium LED SR driver uses the latest DALI 2.0 open standard digital interface, which is compatible with many sensors and networks.

**Simplified, cost-effective intelligent luminaires**

One of the key benefits of this streamlined approach for a luminaire maker is simplified luminaire design. The Xitanium LED SR driver makes an interesting solution for luminaire manufacturers around the world, as they eliminate the need for multiple, separate auxiliary components in the luminaire, time consuming wiring configurations, whilst eliminating incompatibility issues.

All components can be assembled during the production process, so that the complete luminaire becomes an intelligent node, one that is easy to install and cost-effective. Xitanium LED SR drivers will retain the same physical dimensions as their existing Xitanium LED drivers counterparts, for easy mounting inside the luminaires.

<table>
<thead>
<tr>
<th>Features</th>
<th>Xitanium LED indoor drivers</th>
<th>Xitanium LED SR drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slim profile (21mm in height)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SimpleSet technology</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Long life</td>
<td>Up to 100k hrs</td>
<td>Up to 100k hrs</td>
</tr>
<tr>
<td>Powered digital connection to sensors</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Energy reporting</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>DC power for sensors</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Philips outdoor LED drivers offer extreme reliability and maximum flexibility, enabling you to get the best out of LED lighting applications.

### Portfolio

<table>
<thead>
<tr>
<th>Outdoor drivers</th>
<th>Dimming</th>
<th>Basic features and performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DALI</td>
<td>1-10V</td>
</tr>
<tr>
<td>Statement</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Performance</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Core</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Entry</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**SimpleSet**: IP65 No No No Yes

**Performance**: IP67/Built-in

**Core**: IP67/Built-in

**Statement**: IP67/Built-in
Philips Xitanium full programmable LED drivers are specifically designed to deliver the highest performance, protection and configurability. The portfolio offers both central and standalone dimming protocols further increasing the energy savings and CO2 reductions achieved with LED lighting. The technology ensures maximum robustness and protection combined with a very long lifetime.

In this product family, Philips introduces new drivers in a stretched form factor with state-of-the-art features, which offers high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

Xitanium full programmable outdoor drivers

Philips Xitanium full programmable LED drivers are value engineered to deliver a carefully selected feature set of high-end performance, making it a preferred choice for many outdoor applications. The portfolio offers high flexibility with a customizable operating window, enabling differentiation in LED lighting design via system tuning and being prepared for LED efficacy upgrades.

These new LED drivers come in a stretched form factor with a balanced feature set, offering high value for both OEM luminaire makers and end-users. The products can replace the existing programmable outdoor LED drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

Xitanium lite programmable outdoor drivers

Philips Xitanium lite programmable LED drivers are specifically designed to deliver the highest performance, protection and configurability. The portfolio offers both central and standalone dimming protocols further increasing the energy savings and CO2 reductions achieved with LED lighting. The technology ensures maximum robustness and protection combined with a very long lifetime.

In this product family, Philips introduces new drivers in a stretched form factor with state-of-the-art features, which offers high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.
Xitanium adjustable output current outdoor drivers

Philips Xitanium low voltage LED adjustable current drivers are specifically designed for maximum flexibility and reliability in low voltage outdoor applications. With superior surge protection, these durable, independently-housed drivers deliver consistent and high performance in luminaires even after multiple indirect lightning strikes. This makes an ideal solution for OEMs who need affordable, reliable and flexible LED solutions in rugged, independent outdoor applications.

**Features**
- Proven robustness and reliable electronic driver design
- Adjustable output current with wide window
- Long lifetime to withstand harsh outdoor conditions
- Compact size, fitting with varied and critical luminaires
- Suitable for Class I isolated luminaires
- Authorized certifications: ENEC, CB, CE and CCC
- Surge protection 4kV

**Benefits**
- Low voltage/high current output fitting the application of LED strings connecting in parallel
- Adjustable output current (AOC) gives the full flexibility to output different currents to spec-in different projects
- Easy adjustment of output current/voltage by simply using a screwdriver
- Various power wattage drivers that are related to the lumen packages/applications
- Consistent waterproof performance throughout the lifecycle
- IP-rated housing supports luminaires without fully sealed gearboxes

**Applications**
- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High-bay lighting

**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Housing</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Dimensions</th>
<th>Ordering</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xitanium 100W 12V AOC</td>
<td>IP65</td>
<td>I220</td>
<td>100</td>
<td>2 + 4 x 2</td>
<td>12-48</td>
<td>200 x 68 x 45</td>
<td>No</td>
<td>929019104580</td>
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<tr>
<td>Xitanium 150W 24V AOC</td>
<td>IP65</td>
<td>I220</td>
<td>150</td>
<td>2 + 4 x 2</td>
<td>12-48</td>
<td>200 x 68 x 45</td>
<td>No</td>
<td>929019104480</td>
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<tr>
<td>Xitanium 200W 28V AOC</td>
<td>IP65</td>
<td>I250</td>
<td>200</td>
<td>2 + 4 x 2</td>
<td>12-48</td>
<td>200 x 68 x 45</td>
<td>No</td>
<td>929019104680</td>
</tr>
</tbody>
</table>
Xitanium dimmable single current outdoor drivers

LED-based light sources are excellent for outdoor environments. They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. The new Philips Xitanium dimmable (1-10V) LED outdoor drivers are specifically designed to deliver reliable performance and protection while meeting the strict performance, approval and application requirements. Smallest form factor in the industry and robust design for the lowest cost luminaires.

**Features**
- Proven robustness and reliable electronic driver design
- Achieving highest efficiency based on advance technology
- Long lifetime, 100K hours/Tc life
- High surge protection, 4KV Differential Mode and 4KV Common Mode
- Extremely compact in size, suitable for various luminaires
- Suitable for Class I isolated luminaires
- Authorized certifications: ENEC, CB, CE and CCC
- 1-10V dimmable

**Benefits**
- Robust design, capable of withstanding harsh outdoor conditions
- Long lifetime and high survival rate
- Superior thermal management suitable for outdoor application
- Backed by standard warranty
- Consistent waterproof performance through the lifecycle
- Component integration in advanced IC enabling cost-effective designs
- Proven robustness and reliability, allowing lowest luminaire maintenance over time
- Compact in size, suitable for various luminaires
- Easy design-in due to superior thermal management and extra EMI margin

**Applications**
- Highbay lighting
- Tunnel lighting
- Road and street lighting
- Area and flood lighting
- Highbay lighting

**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>W</th>
<th>A</th>
<th>V</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xitanium DIM 100W 0.7A-1-10V 230V Y</td>
<td>Buil-in</td>
<td>100</td>
<td>0.7</td>
<td>64-154</td>
<td>168 x 68 x 38</td>
<td>I220C</td>
<td>929001401080</td>
</tr>
<tr>
<td>Xitanium DIM 150W 0.7A-1-10V 230V Y</td>
<td>Buil-in</td>
<td>150</td>
<td>0.7</td>
<td>96-240</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001400080</td>
</tr>
<tr>
<td>Xitanium DIM 100W 1.05A-1-10V 230V Y</td>
<td>Buil-in</td>
<td>100</td>
<td>1.05</td>
<td>64-154</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001401580</td>
</tr>
<tr>
<td>Xitanium DIM 150W 1.05A-1-10V 230V Y</td>
<td>Buil-in</td>
<td>150</td>
<td>1.05</td>
<td>64-154</td>
<td>175 x 68 x 45</td>
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<td>Xitanium DIM 100W 1.05A-1-10V 230V Y</td>
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<td>1.05</td>
<td>64-154</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001401580</td>
</tr>
<tr>
<td>Xitanium DIM 150W 1.05A-1-10V 230V Y</td>
<td>Buil-in</td>
<td>150</td>
<td>1.05</td>
<td>64-154</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001401080</td>
</tr>
</tbody>
</table>

**Xitanium fixed single current outdoor drivers**

The new Philips Xitanium fixed output LED outdoor drivers are excellent for use in outdoor lighting application areas. When in use, the luminaires put together will be highly reliable and well protected, while meeting strict performance, technical and application requirements. Smallest form factor in the industry and robust design for the lowest cost luminaires.

**Features**
- Proven robustness and reliable electronic driver design
- Achieving highest efficiency based on advance technology
- Long lifetime, 50K hours/Tc max
- High surge protection, 4KV Differential Mode and 4KV Common Mode
- Suitable for Class I isolated luminaires
- Authorized certifications: ENEC, CB, CE and CCC

**Benefits**
- Robust design, capable of withstanding harsh outdoor conditions
- Long lifetime and high survival rate
- Superior thermal management suitable for outdoor application
- Backed by standard warranty
- Consistent waterproof performance through the lifecycle
- Component integration in advanced IC enabling cost-effective designs
- Proven robustness and reliability, allowing lowest luminaire maintenance over time
- Compact in size, suitable for various luminaires
- Easy design-in due to superior thermal management and extra EMI margin

**Applications**
- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- Highbay lighting

**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>W</th>
<th>A</th>
<th>Voltage</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xitanium 100W 0.7A-1-10V</td>
<td>Built-in</td>
<td>100</td>
<td>0.7</td>
<td>64-154</td>
<td>168 x 68 x 38</td>
<td>I220C</td>
<td>929001401080</td>
</tr>
<tr>
<td>Xitanium 100W 1.05A-1-10V</td>
<td>Built-in</td>
<td>100</td>
<td>1.05</td>
<td>64-154</td>
<td>168 x 68 x 38</td>
<td>I220C</td>
<td>929001401580</td>
</tr>
<tr>
<td>Xitanium 150W 0.7A-1-10V</td>
<td>Built-in</td>
<td>150</td>
<td>0.7</td>
<td>96-240</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001400080</td>
</tr>
<tr>
<td>Xitanium 150W 1.05A-1-10V</td>
<td>Built-in</td>
<td>150</td>
<td>1.05</td>
<td>96-240</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001400580</td>
</tr>
<tr>
<td>Xitanium 100W 0.7A-1-10V</td>
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<td>100</td>
<td>0.7</td>
<td>64-154</td>
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<td>929001401580</td>
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<tr>
<td>Xitanium 150W 0.7A-1-10V</td>
<td>Built-in</td>
<td>150</td>
<td>0.7</td>
<td>64-154</td>
<td>175 x 68 x 45</td>
<td>I220C</td>
<td>929001401580</td>
</tr>
</tbody>
</table>
An optimized indoor LED drivers portfolio for Chip on Board (COB) and mid-power LED technology, offers full flexibility for every spot and downlight application.

### Portfolio

<table>
<thead>
<tr>
<th>Point drivers</th>
<th>Dimming</th>
<th>Basic features and performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DALI</td>
<td>1-10V</td>
</tr>
<tr>
<td><strong>Statement</strong></td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Core</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Entry</strong></td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

* CertaDrive LPF <5%
Our Xitanium programmable window LED drivers ensure our OEM partners have complete flexibility and control in producing high quality luminaires. Available in application dedicated form factors, our LED point drivers provide further customization possibilities via wide operating windows. Additionally, almost all drivers feature the following specifications: SELV, temperature derating, hot wiring, providing luminaire makers all the right tools to produce and later on adjust, the designs of premium downlights and spotlights.

**Features**
- DALI dimmable
- Adjustable output current via MultiOne and SimpleSet (WH series)
- +/-5% output current tolerance
- Power range from 20W to 50W
- Lifetime of 50,000 hours

**Benefits**
- LH housing is the smallest design for downlighting and spotlighting
- High reliability underpinned by standard warranty
- Future-proof flexibility: application-oriented operating windows enable LED generation and complexity management
- Compatibility: can be paired with other manufacturers’ modules or OEM makers’ PCB designs
- Authorized certifications: ENEC, CB, CE, CCC, RCM

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**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Housing type</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xitanium 20W LH 0.05-0.5A 48V TD/Is 230V</td>
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<td>LH100</td>
<td>20</td>
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<td>Dali &amp; Touch Dim</td>
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<tr>
<td>Xitanium 36W LH 0.3-1A 48V TD/I 230V</td>
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<td>LH140</td>
<td>36</td>
<td>0.3-1.0</td>
<td>24-48</td>
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<td>Dali &amp; Touch Dim</td>
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<td>24-48</td>
<td>190 x 46 x 32</td>
<td>Dali &amp; Touch Dim</td>
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</table>

Philips Xitanium adjustable window drivers offer flexibility when you are designing and producing high quality luminaires. Suitable for all form factors, our LED point drivers further provide customization possibilities via wide operating windows. Features include SELV, temperature derating, hot wiring, providing an excellent platform for luminaires maker to produce and adjust the designs for downlights and spotlights.

**Features**
- Adjustable output current via SimpleSet
- +/-5% output current tolerance
- Low ripple current <=4%
- 50,000 hours lifetime

**Benefits**
- High reliability underpinned by standard warranty
- Future-proof flexibility: application-oriented operating windows enable LED generation and complexity management
- Compatibility: can be paired with other manufacturers’ modules or OEM makers’ PCB designs
- Authorized certifications: ENEC, CB, CE, CCC, RCM

**Applications**
- Downlight
- Track light
- Spotlight

---

**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Housing type</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
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</thead>
<tbody>
<tr>
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<td>24-48</td>
<td>190 x 46 x 32</td>
<td>No</td>
<td>929000934706</td>
</tr>
</tbody>
</table>
## Xitanium adjustable output current point drivers (Mini)

Philips Xitanium mini indoor point drivers come in the same form as conventional HID Prima vision driver, widely used in downlights and spotlights. The output currents can be adjusted by Rset, allowing OEM partners to have greater design flexibility in the process.

### Features
- Adjustable output current via Rset
- Smallest build-in LED driver with adjustable output current. Now also available for independent use
- +/- 5% output current tolerance
- Low ripple current <= 4%
- THD <= 10%
- Lifetime of 50,000 hours

### Benefits
- Current output adjustable via Rset offers optimal flexibility
- Compact in size, suitable for design-in
- Addresses flickering issue in some applications
- Authorized Certifications: ENEC, CB, CE, CCC and RCM

### Applications
- Downlight
- Track light
- Spotlight

### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
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<th>Order code</th>
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<tr>
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<td>24-48</td>
<td>97 x 43 x 30</td>
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</table>
### Xitanium single current point drivers

This is an affordable range of Xitanium single current indoor point drivers, with a lifetime of 50,000 hours. The driver specifically addresses flickering issues by low ripple current, making this ideal for camera operation.

#### Features
- Small and compact in dimension
- Specific, optimized output current and voltage
- 50,000 hours lifetime
- At TLF
- Low ripple current <=4%
- THD <=15%
- Additional currents available via Fast lane release

#### Benefits
- Designed based on Philips expertise in conventional fluorescent and HID technologies
- Various power wattage drivers suitable for different lumen packages/applications
- Independent housing design for stand-alone installations
- No flicker and camera ready
- Authorized certifications: ENEC, CB, CE, CCC and RCM

#### Applications
- Downlight
- Track light
- Spotlight
- Panel light

---

#### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
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<tr>
<td>Xitanium 44W 0.9/1.05A 42V 240V</td>
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</table>
TrustSight LED emergency drivers

For indoor applications without central emergency power, local emergency lighting is required. Philips TrustSight solutions are designed to operate LED modules on battery power. In the event of a mains voltage failure, the LED emergency driver immediately switches from battery charge mode to illumination mode and takes over the function of the standard LED driver. In order to comply with relevant standards the LED emergency kits are CE and ENEC-certified (incl. IEC EM standards).

**CertifiedDrive single current point drivers**

These fixed current drivers offer an easy to use solution for essential spot, downlight and panel light applications. The CertifiedDrive range is designed to meet the market needs for basic lighting. They are therefore ideal for use in high volume applications and can be used with different types of LED light engines. These driver are optimized for Chip On Board (COB) LED technology and are available in a variety of wattages.

**Features**
- High reliability
- Lumen and lumen maintenance stable and consistent
- Lumen output and light quality levels
- Fast time-to-market
- One-stop-shop for all professional, general lighting LED drivers
- Affordability LED drivers
- +/-10% output current tolerance
- 30,000 hours lifetime

**Benefits**
- Various power wattage drivers to match lumen packages and applications
- Fixed output drivers
- Independent housing design for stand-alone installations
- Authorized certifications: ENEC, CB, CE, CCC and RCM

**Applications**
- Downlight
- Track light
- Spotlight
- Panel light

---

### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Max output</th>
<th>Max output current</th>
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<th>Dimensions</th>
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<tr>
<td><strong>CertaDrive 6W 0.5A 40V I 230V</strong></td>
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<td>32-40</td>
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### Features

- High reliability
- Luminaire design flexibility, stable and consistent
- Lumen output and light quality levels
- Fast time-to-market
- One-stop-shop for all professional, general lighting LED drivers
- Affordability LED drivers
- +/-10% output current tolerance
- 30,000 hours lifetime

### Benefits

- Various power wattage drivers to match lumen packages and applications
- Fixed output drivers
- Independent housing design for stand-alone installations
- Authorized certifications: ENEC, CB, CE, CCC and RCM

### Applications

- Downlight
- Track light
- Spotlight
- Panel light

---

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<table>
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<tr>
<th>Product type</th>
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### Features

- High reliability
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### Applications

- Downlight
- Track light
- Spotlight
- Panel light

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### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Output power</th>
<th>Max output current</th>
<th>Max output voltage</th>
<th>Dimensions</th>
<th>Dimensions</th>
<th>Order code</th>
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<tbody>
<tr>
<td><strong>CertaDrive 8W 0.2A 40V I 230V</strong></td>
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</tbody>
</table>

### Features

- High reliability
- Luminaire design flexibility, stable and consistent
- Lumen output and light quality levels
- Fast time-to-market
- One-stop-shop for all professional, general lighting LED drivers
- Affordability LED drivers
- +/-10% output current tolerance
- 30,000 hours lifetime

### Benefits

- Various power wattage drivers to match lumen packages and applications
- Fixed output drivers
- Independent housing design for stand-alone installations
- Authorized certifications: ENEC, CB, CE, CCC and RCM

### Applications

- Downlight
- Track light
- Spotlight
- Panel light

---

### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Housing type</th>
<th>Output power</th>
<th>Max output current</th>
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<th>Dimensions</th>
<th>Dimensions</th>
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<td>L115</td>
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</tr>
</tbody>
</table>

### Features

- High reliability
- Luminaire design flexibility, stable and consistent
- Lumen output and light quality levels
- Fast time-to-market
- One-stop-shop for all professional, general lighting LED drivers
- Affordability LED drivers
- +/-10% output current tolerance
- 30,000 hours lifetime

### Benefits

- Various power wattage drivers to match lumen packages and applications
- Fixed output drivers
- Independent housing design for stand-alone installations
- Authorized certifications: ENEC, CB, CE, CCC and RCM

### Applications

- Downlight
- Track light
- Spotlight
- Panel light
Xitanium and CertaDrive LED drivers make up a complete portfolio of LED drivers to support project and high volume trade LED luminaires businesses.

### Linear drivers

<table>
<thead>
<tr>
<th>Linear drivers</th>
<th>Dimming</th>
<th>Basic features and performances</th>
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<tbody>
<tr>
<td></td>
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<td>No</td>
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<tr>
<td>Performance</td>
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<td>No</td>
</tr>
<tr>
<td>Entry</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Xitanium programmable indoor linear drivers are designed to operate LED solutions for professional general lighting applications, with non-isolated and isolated drivers to support high voltage and low voltage linear systems. Flexibility in luminaire design is assured thanks to adjustable output current. Application-oriented operating windows offer the flexibility required to provide a stable lumen output and light quality levels that lighting specifiers and architects demand. Reliability is enhanced by specific features that protect the connected LED module, e.g. hot wiring, reduced ripple current and thermal de-rating. With Xitanium programmable indoor linear drivers, it supports tight point management and is programmable for all your needs.

**Features**
- DALI dimming and programmable
- Isolated (low voltage) and non-isolated (high voltage) versions available
- Operating windows – output current can be adjusted with a resistor outside the driver, and all TO drivers can be programmed via the Philips Multi-One configurator
- Reduced ripple current and thermal de-rating for increased reliability
- Longer lifetime (100,000 hours), improved surge and burst specifications
- Central DC operation supported

**Benefits**
- High voltage systems for highest efficiency and lowest cost
- Low voltage systems involve simpler approval process and ease of design-in
- High reliability underpinned by standard local warranty
- Future-proof flexibility – application-oriented operating windows enable LED generation and complexity management
- Compatibility – adjustable output current enables operation of various LED solutions from different manufacturers or OEM maker’s designs
- Low ripple for camera and scanner friendly operation
- More robust LED drivers for industry applications
- Flicker and noise free dimming with all Touch and DALI LED drivers due to amplitude dimming (AM)

**Applications**
- Office
- Industry
- Retail
- Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls

**Product specifications**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Isolate</th>
<th>Housing</th>
<th>Max output power</th>
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<th>Output voltage</th>
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<th>Order code</th>
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</thead>
<tbody>
<tr>
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<td>Xitanium 75W 0.12-0.4A 220V 1-10V 230V</td>
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</tr>
<tr>
<td>Xitanium 110W 0.3-1.6A 230V</td>
<td>Yes</td>
<td>L425</td>
<td>75</td>
<td>0.7-2.0</td>
<td>27-54</td>
<td>425 x 30 x 26.5</td>
<td>Dali &amp; Touch Dim</td>
<td>929000958706</td>
</tr>
</tbody>
</table>
Xitanium single current linear drivers

Xitanium LED drivers with single current output offer industry leading performance and reliability at optimized cost. They are ideal for high volume applications where performance specification is key. These drivers guarantee OEM makers Xitanium performance and Philips reliability but with standard current settings.

**Features**
- Low output current tolerance
- High efficiency
- Compact in dimension
- Specific current and voltage
- 50,000 hours lifetime

**Benefits**
- High voltage systems for highest efficiency and lowest cost
- Easy design-in with specific output current settings
- Low profile drivers enabling greater luminaire design freedom
- Good light quality

**Applications**
- Office
- Industry
- Retail
- Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls

### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Isolate</th>
<th>Housing</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xitanium 30W 400mA 76V 230V</td>
<td>No</td>
<td>L280</td>
<td>30</td>
<td>0.4</td>
<td>64-76</td>
<td>280 x 30 x 22</td>
<td>No</td>
<td>929000830608</td>
</tr>
<tr>
<td>Xitanium 40W 280mA 142V 230V</td>
<td>No</td>
<td>L280</td>
<td>40</td>
<td>0.28</td>
<td>116-142</td>
<td>280 x 30 x 22</td>
<td>No</td>
<td>929000805108</td>
</tr>
</tbody>
</table>

Linear

![Image of Xitanium single current linear drivers](image-url)
## CertaDrive single current linear drivers

CertaDrive LED drivers are designed to fulfill the market needs for essential lighting. They are therefore ideal for high volume applications and can be used with CertaFlux LED modules, or other LED light engines. These drivers offer basic specifications such as specific current and voltage settings, with lifetime of the driver set up to 50,000 hours.

### Features
- High efficiency
- Small dimensions
- Specific current and voltage
- Fast time-to-market
- 30,000 to 50,000 hours lifetime

### Benefits
- High voltage systems for highest efficiency and lowest cost
- Various power/wattage combination which is easy to design
- Low profile drivers enabling greater luminaire design freedom
- Optimized to operate CertaFlux LED modules
- Philips local standard warranty applies

### Applications
- Recessed, surface and suspended luminaires in offices
- Waterproof luminaries and high bay luminaries for industry applications
- Trunking in retail applications

### Product specifications

<table>
<thead>
<tr>
<th>Product type</th>
<th>Isolate</th>
<th>Housing</th>
<th>Max output power</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Dimensions</th>
<th>Dimming</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CertaDrive 15W 0.4A 36V 230V</td>
<td>No</td>
<td>L138</td>
<td>15</td>
<td>0.4</td>
<td>30-42</td>
<td>138 x 25 x 22</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>CertaDrive 30W 0.6A 80V 230V</td>
<td>No</td>
<td>L138</td>
<td>30</td>
<td>0.6</td>
<td>31-82</td>
<td>138 x 25 x 22</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>LED driver 15W 300mA 60V 230V</td>
<td>No</td>
<td>L138</td>
<td>15</td>
<td>0.28</td>
<td>64-76</td>
<td>138 x 25 x 22</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>CertaDrive 30W 0.6A 12V 230V</td>
<td>No</td>
<td>L138</td>
<td>30</td>
<td>0.6</td>
<td>56-80</td>
<td>138 x 25 x 22</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>LED driver 40W 380mA 12V 230V</td>
<td>No</td>
<td>L150</td>
<td>40</td>
<td>0.28</td>
<td>118-145</td>
<td>210 x 30 x 21</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>LED driver 30W 150mA 82V 230V</td>
<td>No</td>
<td>L210</td>
<td>30</td>
<td>0.33</td>
<td>57-82</td>
<td>210 x 30 x 21</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>CertaDrive 40W 240mA 160V 230V</td>
<td>No</td>
<td>L210</td>
<td>40</td>
<td>0.24</td>
<td>116-160</td>
<td>210 x 30 x 21</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>CertaDrive 40W 360mA 200V 230V</td>
<td>No</td>
<td>L210</td>
<td>40</td>
<td>0.35</td>
<td>97-110</td>
<td>210 x 30 x 21</td>
<td>No</td>
<td>929000140980</td>
</tr>
<tr>
<td>CertaDrive 60W 300mA 200V 230V</td>
<td>No</td>
<td>L210</td>
<td>60</td>
<td>0.33</td>
<td>125-170</td>
<td>210 x 30 x 21</td>
<td>No</td>
<td>929000140980</td>
</tr>
</tbody>
</table>

## TrustSight LED emergency drivers

For indoor applications without central emergency power, local emergency lighting is required. Philips LED emergency solutions are designed to operate LED modules on battery power. In the event of a mains voltage failure, the LED emergency driver immediately switches from battery charge mode to illumination mode and takes over the function of the standard LED driver. In order to comply with relevant standards the LED emergency kits are CE and ENEC-certified.

### CertaDrive single current linear drivers

<table>
<thead>
<tr>
<th>Product specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>TrustSight LED 40-80mA 2.6W 9hr F</td>
</tr>
<tr>
<td>TrustSight LED 40-80mA 2.6W 3hrs F</td>
</tr>
</tbody>
</table>

A kit includes: emergency driver, the battery set, battery adapter harness and the LED indicator.

### CertaDrive single current linear drivers

<table>
<thead>
<tr>
<th>Product specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>TrustSight Pro L 20-95V 3W 9hr kit</td>
</tr>
<tr>
<td>TrustSight Pro L 20-95V 6W 9hr kit</td>
</tr>
<tr>
<td>TrustSight Basic L 20-95V 3W 9hr kit</td>
</tr>
<tr>
<td>TrustSight Basic L 20-95V 6W 9hr kit</td>
</tr>
</tbody>
</table>
MultiOne configurator

The demands from customers for flexibility and diversity are fast increasing in multi-folds. This is the reason why Philips has introduced simplified tools which allow you to easily configure your drivers for ease of use.

The universal Philips MultiOne configurator is a tool you can use with any Philips programmable driver and configure the functions in your lighting solutions for any application. It has become a must-have in all applications where the lighting system needs to match specific requirements.

Features
- For use with all Philips LED, fluorescent and HID programmable drivers
- Suitable for standard Windows computers with USB connection
- Different interfaces depending on the installation
- Enables optimization of installation, last minute changes, easy diagnostics and maintenance

Benefits
- One tool for all Philips configurable drivers, both for conventional and LED systems
- Flexibility for OEM providing access to the features built into the driver
- Optimized for use in the production process
- Unique tool that combines configuration with diagnostics

Applications
- General lighting
- Retail lighting
- Outdoor lighting
- Office lighting

The MultiOne configurator consists of two building blocks

1. MultiOne Interface tool

LCN9610 or LCN9620 MultiOne SimpleSet Interface
The tools can be used with the MultiOne PC software to configure drivers using SimpleSet® Technology.

2. MultiOne Software

Supporting MultiOne Software
to be installed on a PC, laptop or production work station.

System requirements:
- Windows PC or laptop
- Microsoft windows 7, 8.0, 8.1 (support of Windows XP will stop in end 2015)
- USB 2.0 ports (two free ports preferred)
- Min 35 MB of free disk space
- Microsoft NET Framework 3.5 SP1

Free download
Find out more about MultiOne software via www.philips.com/multiOne
The MultiOne configurator software is free and downloadable from our website. It consists of:

1. **MultiOne Engineering**
   Specially developed to access all functionalities of the driver, to configure, diagnose and prepare the configuration file for the production environment.
   
   Also includes:
   - DALI commands, scheduler
   - SimpleSet®

2. **MultiOne Workflow**
   Developed to configure all devices or subassemblies in the production environment in a simple and quick way.
   
   Depending on the type of driver, a combination of features can be configured. With these features, one can create diversity (e.g. Adjustable light output and Adjustable output current), but also extra security (e.g. Module temperature protection and DC emergency), including cost-down improvements (e.g. Constant light output, Dynadimmer and Corridor mode).

Detailed explanations of each feature and how to configure, are available in the instruction manual on our website.

[www.philips.com/MultiOne](http://www.philips.com/MultiOne)
LED drivers selection pointers

Different drivers cater to different needs and the right drivers can help ensure optimal performance of your LED light engine. Use the following chart to help you pick the perfect drivers to match your intended use.

**Target applications**

**Outdoor drivers / Point drivers / Linear drivers**

**Output**
- Output power
- Output current
- Output voltage

**Mechanical**
- Drivers size
- Wire type
- IP rating

**Features**
- Digital programming
- SimpleSet™
- SensorReady™
- Lifetime

**Thermal**
- TC life
- TC max
- Lifetime

**Application**
- THD
- Surge protection
- Leak current
- EMI tolerance
- Ripple

**Safety**
- Approval
- SELV
- Isolated or non-isolated

**Protection**
- X: Maximum reliable
- sX: Proven reliable
- iX: Industry reliable

**Input voltage**
- 230V: 220V-240V input for Asia and Europe
- INT: 120V-277V input for American
- GL: 120V-277V+230V input for Global
- HV: 347V-480V input for industrial installations in Canada and US

**Control**
- LE: Leading Edge
- TE: Trailing edge
- 0-10V: 0 to 10V dimming
- D: Dali
- TD: Touch Dali
- LS: Lumistep
- SD: StepDim

**Range of output current**
- Max output power

**Family**
- TrustSight: Trustsight LED emergency driver
- Xitanium Dim: Xitanium driver with dimming features
- Xitanium Lite Prog: Xitanium light programmable driver
- Xitanium SensorReady™: Xitanium SensorReady™ driver
- Xitanium SimpleSet™: Xitanium SimpleSet™ driver

---

**Drivers namings**

- Xitanium 75W 0.7-2 TD R 230V /H iXt

**Protection**
- X: Maximum reliable
- sX: Proven reliable
- iX: Industry reliable

**Housing**
- Enclosure Designation

**Input voltage**
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