

The background of the advertisement is a photograph of a road at dusk or dawn. The sky is a mix of blue and purple. Several modern, curved streetlights line the right side of the road, casting a warm glow. Two cars are visible in the distance on the road, their headlights on.

PHILIPS

LED drivers



Lighting the future with LED technology

Flexible and reliable range of LED drivers



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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.

innovation  you

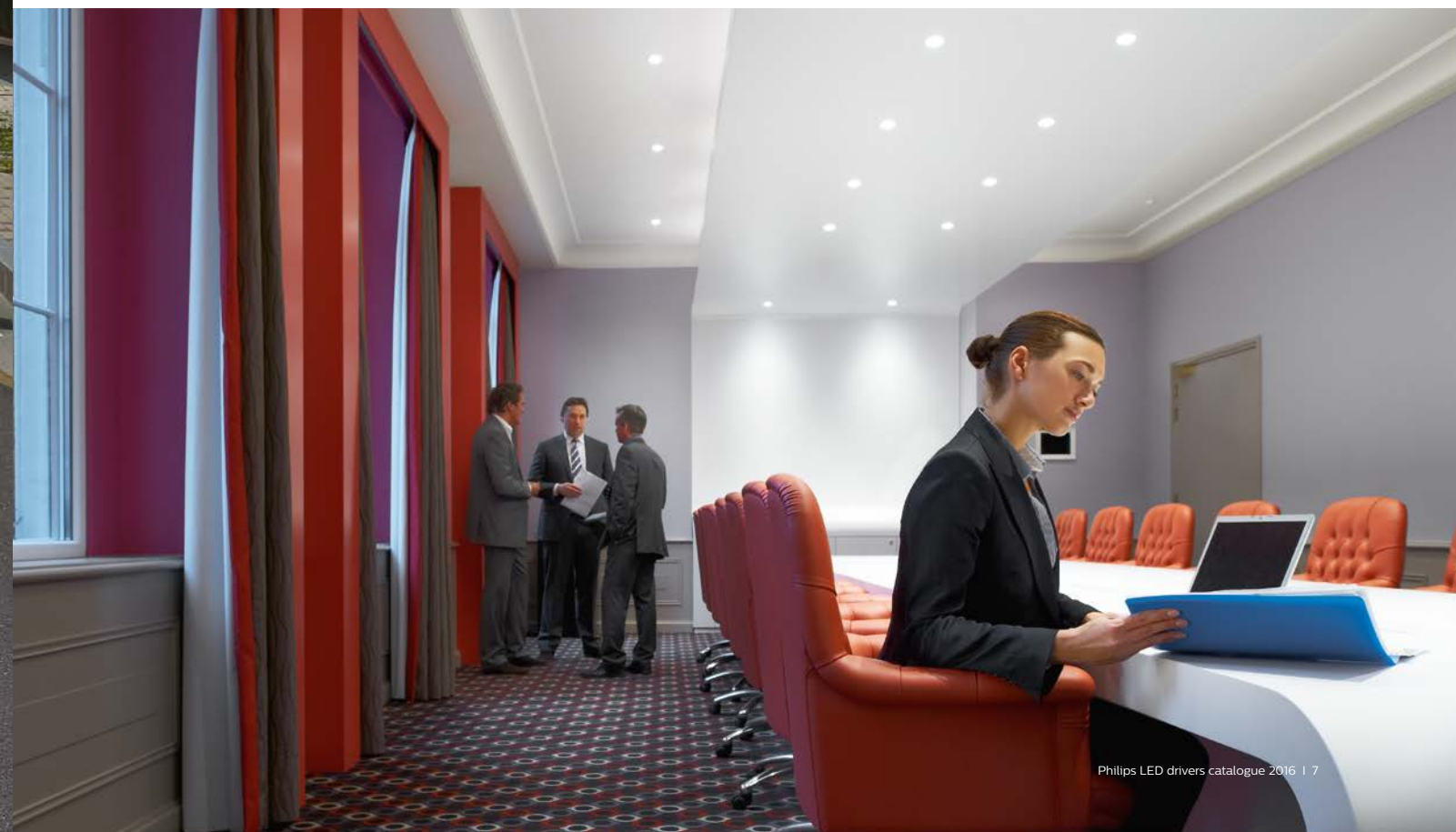


Why Philips LED drivers?



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

Linear drivers



Highbay for warehouses



Panel light for hospitals



Highbay for factories

Point drivers



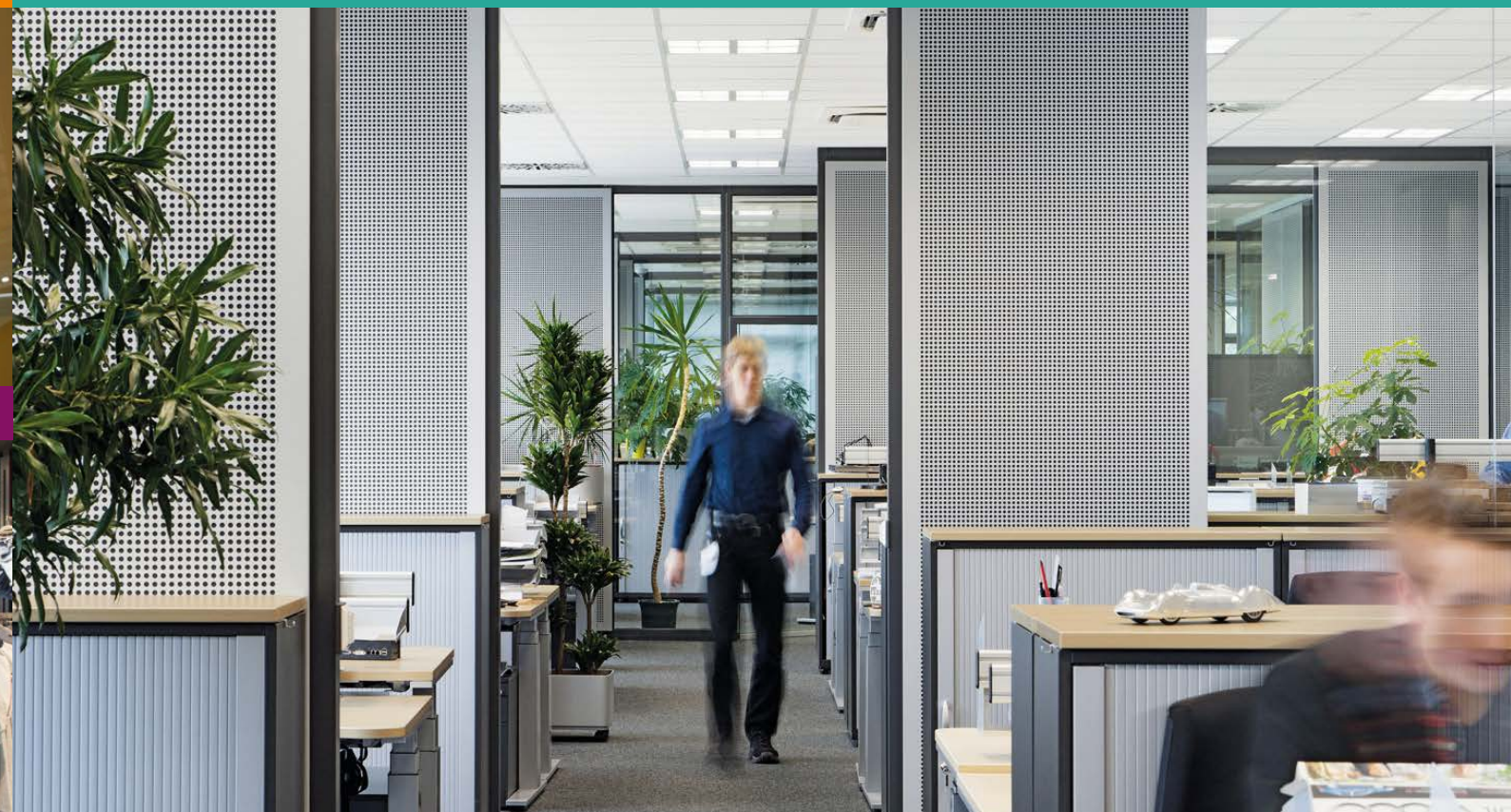
Track light for museums



Downlight for hospitality



Spotlight for retail



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.

	Outdoor drivers	Point drivers	Linear drivers
<div>S</div> <div>Statement</div> <div>Connected and programmable</div>	<div>Xitanium full programmable outdoor drivers</div> <div>  <div>S175S240</div> </div>	<div>Xitanium programmable point drivers</div> <div>  <div>LH100LH140</div> <div>/WH/SH</div> </div>	<div>Xitanium programmable linear drivers</div> <div>  <div>L360L425</div> </div>
<div>P</div> <div>Performance</div> <div>Flexible and future-proof</div>	<div>Xitanium lite programmable outdoor drivers</div> <div>  <div>S175S240</div> </div> <div>Xitanium adjustable output current outdoor drivers</div> <div>  <div>I220I250</div> </div>	<div>Xitanium adjustable output current point drivers (SimpleSet)</div> <div>  <div>L100LH140</div> </div> <div>Xitanium adjustable output current point drivers (Mini)</div> <div>  <div>/m</div> </div>	<div>Xitanium adjustable output current linear drivers</div> <div>  <div>L280L360L425</div> </div>
<div>C</div> <div>Core</div> <div>Performance and reliability</div>	<div>Xitanium dimmable single current outdoor drivers</div> <div>  <div>Y-canI175</div> </div> <div>  <div>Q-canI220C</div> </div>	<div>Xitanium single current point drivers</div> <div>  <div>L115L105</div> </div>	<div>Xitanium single current linear drivers</div> <div>  <div>L280</div> </div>
<div>E</div> <div>Entry</div> <div>Foundation</div>	<div>Xitanium fixed single current outdoor drivers</div> <div>  <div>Y-canI175</div> </div>	<div>CertaDrive single current point drivers</div> <div>  <div>L88L115L105</div> </div>	<div>CertaDrive single current linear drivers</div> <div>  <div>L138L150L210</div> </div>

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

Low ripple current. Camera-friendly and minimizes flickering.

Lifetime: Up to 100,000hours 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.



Key innovation 2016

Xitanium SensorReady (SR) drivers

for wireless connected luminaires



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.

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.





Features	Xitanium LED indoor drivers	Xitanium LED SR drivers
Slim profile (21mm in height)	Yes	Yes
SimpleSet technology	Yes	Yes
Long life	Up to 100k hrs	Up to 100k hrs
Powered digital connection to sensors	No	Yes
Energy reporting	No	Yes
DC power for sensors	No	Yes



Outdoor drivers

Philips outdoor LED drivers offer extreme reliability and maximum flexibility, enabling you to get the best out of LED lighting applications.

Portfolio

Outdoor drivers	Dimming		Basic features and performance		
	DALI	1-10V	SimpleSet	Adjustable output current (AOC)	Housing/ installation
 Statement	Yes	No	Yes	Yes	Built-in
 Performance	No	Yes	Yes	Yes	Built-in
	No	No	No	Yes	IP65
 Core	No	No	No	No	IP67/Built-in
 Entry	No	No	No	No	IP67/Built-in



Xitanium full programmable outdoor drivers

Outdoor

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 feature is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

- Features

 - SimpleSet, wireless configuration interface
 - High surge protection, 6KV Differential Mode and 8KV Common Mode
 - Long lifetime up to 100k hours and robust protection against moisture, vibration and temperature
 - Configurable operating windows (AOC)
 - Multiple control interfaces: DALI, LineSwitch, AmpDim
 - Autonomous dimming via integrated DynaDimmer
 - Thermal protection for driver and for module (MTP)
 - Constant light output (CLO)
 - Adjustable start-up time (AST)
 - Adjustable light output (ALO)
- Benefits

 - Robust, offering peace of mind and lower maintenance costs
 - Fully programmable LED drivers designed for the new digital and connected lighting world
 - Extended diagnostics via SimpleSet and MultiOne
 - Easy design-in, configuration and installation for Class I and Class II applications
 - Energy savings through high efficiency and via multiple dimming options
- Applications

 - Road and street lighting
 - Tunnel lighting
 - Area lighting
 - Industry lighting



Product specifications								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	Built-in	S175	22	0.3-1.0	10-32	175 x 46 x 34	DALI/LineSwitch/Dynadimmer	929000991206
Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	Built-in	S175	40	0.3-1.0	20-54	175 x 46 x 34	DALI/LineSwitch/Dynadimmer	929000989306
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	Built-in	S240	75	0.3-1.0	35-105	240 x 58 x 38	DALI/LineSwitch/Dynadimmer	929000962506
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	Built-in	S240	150	0.3-1.0	70-214	240 x 58 x 38	DALI/LineSwitch/Dynadimmer	929000962306

Xitanium lite programmable outdoor drivers

Outdoor

Philips Xitanium lite 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 feature is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

- Features

 - SimpleSet, wireless configuration interface
 - High surge protection, 6KV Differential Mode and 8KV Common Mode
 - Long lifetime up to 100k hours and robust protection against moisture, vibration and temperature
 - Configurable operating windows (AOC)
 - External control interface
 - 1-step autonomous dimming via integrated DynaDimmer lite
 - Thermal protection for driver (integrated)
 - Simplified linear version of constant light output (CLO LITE)
- Benefits

 - Robust, offering peace of mind and lower maintenance costs
 - Balanced configurable feature set covering the most common applications
 - Easy design-in, configuration and installation for Class I and Class II applications
 - Energy savings through high efficiency and via multiple dimming options
- Applications

 - Road and street lighting
 - Tunnel lighting
 - Area lighting
 - Industry lighting



Product specifications								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	Built-in	S175	40	0.3-1.0	4-40	175 x 46 x 34	1-10V/Dynadimmer LITE	929000940806
Xi LP 75W 0.3-1.0A S1 230V S240 sXt	Built-in	S240	75	0.3-1.0	35-108	240 x 58 x 38	1-10V/Dynadimmer LITE	929000963306
Xi LP 150W 0.3-1.0A S1 230V S240 sXt	Built-in	S240	150	0.3-1.0	70-214	240 x 58 x 38	1-10V/Dynadimmer LITE	929000962906

Xitanium adjustable output current outdoor drivers

Outdoor

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 through 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

Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xitanium 100W 2.1-4.2A AOC 230V I220	IP65	I220	100	2.1-4.2	12-48	220 x 68 x 45	No	929001404580
Xitanium 150W 2.45-4.9A AOC 230V I220	IP65	I220	150	2.45-4.9	15-61	220 x 68 x 45	No	929001404480
Xitanium 200W 2.8-5.6A AOC 230V I250	IP65	I250	200	2.8-5.6	21-72	250 x 68 x 45	No	929001404680

Xitanium dimmable single current outdoor drivers

Outdoor

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, approbation 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

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



Product specifications								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		
Xitanium DIM 100W 0.7A 1-10V 230V Y	Built-in	Y-can	100	0.7	64-154	168 x 68 x 38	1-10V	929001402280
Xitanium DIM 100W 1.05A 1-10V 230V Y	Built-in	Y-can	100	1.05	42-102	168 x 68 x 38	1-10V	929001402380
Xitanium DIM 100W 0.7A 1-10V 230V I175	IP67	I175	100	0.7	64-154	175 x 68 x 45	1-10V	929001401880
Xitanium DIM 100W 1.05A 1-10V 230V I175	IP67	I175	100	1.05	42-102	175 x 68 x 45	1-10V	929001402080
Xitanium DIM 150W 0.7A 1-10V 230V Y	Built-in	Y-can	150	0.7	96-240	168 x 68 x 38	1-10V	929001401680
Xitanium DIM 150W 1.05A 1-10V 230V Y	Built-in	Y-can	150	1.05	62-154	168 x 68 x 38	1-10V	929001401780
Xitanium DIM 150W 0.7A 1-10V 230V I175	IP67	I175	150	0.7	96-240	175 x 68 x 45	1-10V	929001401280
Xitanium DIM 150W 1.05A 1-10V 230V I175	IP67	I175	150	1.05	62-154	175 x 68 x 45	1-10V	929001401480
Xitanium DIM 250W 0.7A 1-10V 230V Q	Built-in	Q-can	250	0.7	178-357	241 x 90 x 42	1-10V	929000838508
Xitanium DIM 250W 1.05A 1-10V 230V Q	Built-in	Q-can	250	1.05	118-238	241 x 90 x 42	1-10V	929001404280
Xitanium DIM 250W 0.7A 1-10V 230V I220C	IP67	I220C	250	0.7	178-357	220 x 94 x 49	1-10V	929001404080
Xitanium DIM 250W 1.05A 1-10V 230V I220C	IP67	I220C	250	1.05	118-238	220 x 94 x 49	1-10V	929001404180

Xitanium fixed single current outdoor drivers

Outdoor

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								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		
								12NC
Xitanium 100W 0.7A 230V Y	Built-in	Y-can	100	0.7	64-154	168 x 68 x 38	No	929001401080
Xitanium 100W 1.05A 230V Y	Built-in	Y-can	100	1.05	42-102	168 x 68 x 38	No	929001401180
Xitanium 100W 0.7A 230V I175	IP67	I175	100	0.7	64-154	175 x 68 x 45	No	929001400680
Xitanium 100W 1.05A 230V I175	IP67	I175	100	1.05	42-102	175 x 68 x 45	No	929001400880
Xitanium 150W 0.7A 230V Y	Built-in	Y-can	150	0.7	96-240	168 x 68 x 38	No	929001400480
Xitanium 150W 1.05A 230V Y	Built-in	Y-can	150	1.05	62-154	168 x 68 x 38	No	929001400580
Xitanium 150W 0.7A 230V I175	IP67	I175	150	0.7	96-240	175 x 68 x 45	No	929001400080
Xitanium 150W 1.05A 230V I175	IP67	I175	150	1.05	62-154	175 x 68 x 45	No	929001400280



Point drivers

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

Point drivers	Dimming		Basic features and performance		
	DALI	1-10V	Adjustable output current (AOC)	Lifetime (Hours at TcLife)	Output current ripple LF
 Statement	Yes	No	MultiOne	50,000	<4%
 Performance	No	No	SimpleSet/LEDset	50,000	<4%
 Core	No	No	No	50,000	<4%
 Entry	No	No	No	30,000	<30%*

* CertaDrive LPF <5%



Xitanium programmable
point drivers

Point

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
- Applications

 - Downlight
 - Track light
 - Spotlight



Product specifications								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm	%	12NC
Xitanium 20W LH 0.15-0.5A 48V TD/Is 230V	Optional	LH100	20	0.15-0.5	24-48	150 x 46 x 32	Dali & Touch Dim	929000904006
Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V	Optional	/WH	20	0.15-0.5	24-48	200 x 74 x 32	Dali & Touch Dim	929000991706
Xitanium 36W LH 0.3-1A 48V TD/I 230V	Independent	LH140	36	0.3-1.0	24-48	190 x 46 x 32	Dali & Touch Dim	929000870806
Xitanium 36W WH 0.3-1A 54V TD/Is 230V	Optional	/WH	36	0.3-1.0	24-54	200 x 74 x 32	Dali & Touch Dim	929000969906
Xitanium 50W LH 0.3-1A 62V TD/I 230V	Independent	LH140	50	0.3-1.0	31-62	190 x 46 x 32	Dali & Touch Dim	929000863803
Xitanium 50W LH 0.7-1.5A 48V TD/I 230V	Independent	LH140	50	0.7-1.5	24-48	190 x 46 x 32	Dali & Touch Dim	929000904106

Xitanium adjustable output current
point drivers (SimpleSet)

Point

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								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xitanium 20W LH 0.15-0.5A 48V I 230V	Independent	LH100	20	0.15-0.5	24-48	150 x 46 x 32	No	929000941306
Xitanium 36W LH 0.3-1A 48V I 230V	Independent	LH140	36	0.3-1.0	24-48	190 x 46 x 32	No	929001404306
Xitanium 50W LH 0.7-1.5A 48V I 230V	Independent	LH140	50	0.7-1.5	24-48	190 x 46 x 32	No	929000934706

Xitanium adjustable output current point drivers (Mini)

Point

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

Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xitanium 20W/m 0.15-0.5A 48V 230V	Built-in	/m	20	0.15-0.5	24-48	97 x 43 x 30	No	929000893806
Xitanium 36W/m 0.3-1.05A 48V 230V	Built-in	/m	36	0.3-1.05	24-48	97 x 43 x 30	No	929000881806
Xitanium 50W/m 0.5-1.5A 48V 230V	Built-in	/m	50	0.3-1.05	24-48	97 x 43 x 30	No	929000934606

Xitanium single current point drivers

Point

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 TcLife
 - 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 type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions mm	Dimming	Order code
			W	A	V			12NC
Xitanium 15W 0.35A 42V I 230V	Independent	L115	15	0.35	32-42	115 x 45 x 29	No	929001410180
Xitanium 21W 0.5A 42V I 230V	Independent	L115	21	0.5	32-42	115 x 45 x 29	No	929001410280
Xitanium 32W 0.7/0.75A 42V I 230V	Independent	L105	32	0.7/0.75	32-42	105 x 68 x 32	No	929001410480
Xitanium 44W 0.9/1.05A 42V I 230V	Independent	L105	44	0.9/1.05	32-42	105 x 68 x 32	No	929001410680

CertaDrive single current
point drivers

Point

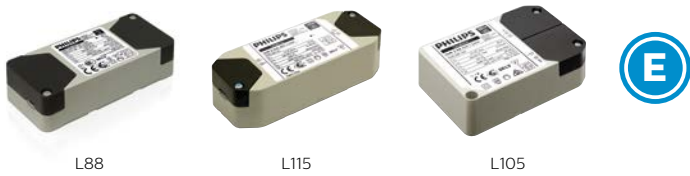
These fixed current drivers offer an easy to use solution for essential spot, downlight and panel light applications. The CertaDrive range is designed to meet the market needs for basic lighting. They are therefore ideal for use in high volume applications and can be used with different types of LED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

- Features

 - High reliability
 - Luminaire design flexibility, stable and constant
 - 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 life time
- 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								
Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		
CertaDrive 6W 0.15A 40V LPF I 230V	Independent	L88	6	0.15	32-40	88 x 39 x 32	No	929001411780
CertaDrive 8W 0.2A 40V LPF I 230V	Independent	L88	8	0.2	32-40	88 x 39 x 32	No	929001409980
CertaDrive 8W 0.7A 11V LPF I 230V	Independent	L88	8	0.7	8-11	88 x 39 x 32	No	929001412080
CertaDrive 10W 0.25A 40V LPF I 230V	Independent	L88	10	0.25	32-40	88 x 39 x 32	No	929001410006
CertaDrive 10W 0.5A 20V LPF I 230V	Independent	L88	10	0.5	16-20	88 x 39 x 32	No	929001412180
CertaDrive 12W 0.3A 40V LPF I 230V	Independent	L88	12	0.3	32-40	88 x 39 x 32	No	929001409506
CertaDrive 8W 0.2A 40V I 230V	Independent	L115	8	0.2	32-40	115 x 45 x 29	No	929000956006
CertaDrive 10W 0.25A 40V I 230V	Independent	L115	10	0.25	32-40	115 x 45 x 29	No	929000956106
CertaDrive 10W 0.5A 20V I 230V	Independent	L115	10	0.5	16-20	115 x 45 x 29	No	929000953306
CertaDrive 12W 0.3A 40V I 230V	Independent	L115	12	0.3	32-40	115 x 45 x 29	No	929000953506
CertaDrive 15W 0.35A 42V I 230V	Independent	L115	15	0.35	32-42	115 x 45 x 29	No	929000898108
CertaDrive 18W 0.3A 60V I 230V	Independent	L115	18	0.3	50-60	115 x 45 x 29	No	929001410380
CertaDrive 20W 0.5A 40V I 230V	Independent	L115	20	0.5	32-40	115 x 45 x 29	No	929000898008
CertaDrive 20W 0.7A 28V I 230V	Independent	L115	20	0.7	22-28	115 x 45 x 29	No	929000897908
CertaDrive 25W 0.6A 42V I 230V	Independent	L115	20	0.6	32-42	115 x 45 x 29	No	929001410706
CertaDrive 30W 0.7A 42V I 230V	Independent	L105	30	0.7	32-42	105 x 68 x 32	No	929000932008
CertaDrive 34W 0.8A 42V I 230V	Independent	L105	34	0.8	32-42	105 x 68 x 32	No	929000932108
CertaDrive 38W 0.9A 42V I 230V	Independent	L105	38	0.9	32-42	105 x 68 x 32	No	929000933406

TrustSight LED emergency drivers

Point

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).



Product specifications						
Product type	Dimensions*	Output forward voltage range	Self test	Self test battery pack	SELV	Order code
	mm	V		Rate duration		12NC
TrustSight Pro P 15-55V 3W 1hr kit	190 x 46 x 32	15-55	Automatic	1 hr for 3W (NiMH)	Yes	871869648650400
TrustSight Pro P 15-55V 3W 3hrs kit	190 x 46 x 32	15-55	Automatic	3 hrs for 3W (NiMH)	Yes	871869648652800
TrustSight Basic P 15-55V 3W 1hr kit	190 x 46 x 32	15-55	Manual	1 hr for 3W (NiMH)	Yes	871869652581400
TrustSight Basic P 15-55V 3W 3hrs kit	190 x 46 x 32	15-55	Manual	3 hrs for 3W (NiMH)	Yes	871869652583800





*Note: Excluding strain relief.
A kit includes: Emergency driver, the battery set, battery adapter harness and the LED indicator.



Linear drivers

Xitanium and CertaDrive LED drivers make up a complete portfolio of LED drivers to support project and high volume trade LED luminaires businesses.

Portfolio

Linear drivers	Dimming		Basic features and performances		
	DALI dim	1-10V	MultiOne programmable	Adjustable output current (AOC)	Lifetime (Hours at TcLife)
 Statement	Yes	No	Yes	Yes	100,000
 Performance	No	Yes	No	Yes	100,000
 Core	No	No	No	No	100,000
 Entry	No	No	No	No	50,000

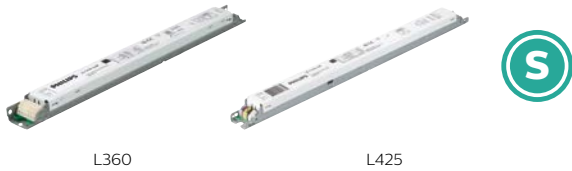


Xitanium programmable
linear drivers

Linear

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 light 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 TD drivers can be programmed via the Philips MultiOne 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 approbation 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								
Product type	Isolate	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xitanium 36W 0.12-0.4A 110V TD 230V	No	L360	36	0.12-0.4	50-110	360 x 30 x 22	Dali & Touch Dim	929000852203
Xitanium 75W 0.12-0.4A 215V TD 230V	No	L360	75	0.12-0.4	100-215	360 x 30 x 22	Dali & Touch Dim	929000852103
Xitanium 36W 0.3-1A 54V TD 230V	Yes	L425	36	0.3-1.0	27-54	425 x 30 x 26.5	Dali & Touch Dim	929000832303
Xitanium 75W 0.7-2A 54V TD 230V	Yes	L425	75	0.7-2.0	27-54	425 x 30 x 26.5	Dali & Touch Dim	929000870403
Xitanium 110W 0.2-0.6A 215V TD 230V iXt	No	L360	110	0.2-0.6	100-215	360 x 30 x 22	Dali & Touch Dim	929000877306
Xitanium 150W 0.2-0.7A 300V TD 230V iXt	No	L360	150	0.2-0.7	150-300	360 x 30 x 22	Dali & Touch Dim	929000893306

Xitanium adjustable output
current linear drivers

Linear

Xitanium adjustable output current indoor linear drivers can be widely used to operate LED lighting solutions across general lighting applications. Flexibility in luminaire design is assured thanks to the adjustable output current. A stable lumen output and high quality light levels are made possible by the application-oriented operating windows, matching the requirements by lighting specifiers and architects. This is a reliable driver enhanced with multiple features and benefits allowing wide usage across multiple applications.

- Features
- Multiple versions – 1-10V dimmable and fixed output, non-isolated and isolated available
 - Adjustable output current via a resistor outside the driver
 - 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 approbation 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
- Applications
- Office
 - Industry
 - Retail
 - Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls



Product specifications								
Product type	Isolate	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	No	L280	75	0.12-0.4	100-220	280 x 30 x 21	1-10V	929000953706
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	No	L280	36	0.12-0.4	50-115	280 x 30 x 21	1-10V	929000953606
Xitanium 75W 0.12-0.4A 220V 230V	No	L280	75	0.12-0.4	100-220	280 x 30 x 21	No	929000950706
Xitanium 36W 0.12-0.4A 115V 230V	No	L280	36	0.12-0.4	50-115	280 x 30 x 21	No	929000950606
Xitanium 75W/0.7-2A 54V 1-10V 230V	Yes	L425	75	0.7-2.0	27-54	425 x 30 x 26.5	1-10V	929000863503
Xitanium 36W/0.3-1A 54V 1-10V 230V	Yes	L360	36	0.3-1.0	27-54	360 x 30 x 26.5	1-10V	929000854003
Xitanium 75W/0.7-2A 54V 230V	Yes	L360	75	0.7-2.0	27-54	360 x 30 x 21	No	929000958806
Xitanium 36W/0.3-1A 54V 230V	Yes	L360	36	0.3-1.0	27-54	360 x 30 x 21	No	929000958706

Xtitanium single current linear drivers

Linear

Xtitanium 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 Xtitanium 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

Product type	Isolate	Housing	Max output power	Output current	Output voltage	Dimensions mm	Dimming	Order code
			W	A	V			
Xtitanium 30W 400mA 76V 230V	No	L280	30	0.4	64-76	280 x 30 x 22	No	929000830608
Xtitanium 40W 280mA 142V 230V	No	L280	40	0.28	116-142	280 x 30 x 22	No	929000805108



CertaDrive single current
linear drivers

Linear

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 luminaires and high bay luminaires for industry applications
 - Trunking in retail applications



Product specifications								
Product type	Isolate	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V	mm		12NC
CertaDrive 15W 0.4A 36V 230V	No	L138	15	0.4	30-42	138 x 25 x 22	No	929001409880
CertaDrive 30W 0.4A 80V 230V	No	L138	30	0.4	51-82	138 x 25 x 22	No	929001409780
LED driver 20W 280mA 69V 230V	No	L138	20	0.28	64-76	138 x 25 x 22	No	929000887180
CertaDrive 30W 0.4A 72V 230V	No	L138	30	0.4	56-80	138 x 25 x 22	No	929000914606
LED driver 40W 280mA 132V 230V	No	L150	40	0.28	118-145	150 x 40 x 28	No	929000887280
CertaDrive 30W 350mA 82V 230V	No	L210	30	0.35	57-82	210 x 30 x 21	No	929000934806
CertaDrive 30W 330mA 82V 230V	No	L210	30	0.33	72-82	210 x 30 x 21	No	929000974806
CertaDrive 40W 240mA 160V 230V	No	L210	40	0.24	116-160	210 x 30 x 21	No	929000934906
CertaDrive 40W 360mA 110V 230V	No	L210	40	0.36	91-110	210 x 30 x 21	No	929000974906
CertaDrive 60W 360mA 170V 230V	No	L210	60	0.36	120-170	210 x 30 x 21	No	929000970006
CertaDrive 60W 300mA 200V 230V	No	L210	60	0.3	145-200	210 x 30 x 21	No	929000934906

TrustSight LED emergency drivers

Linear

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.



Product specifications						
Product type	Dimensions	Output current range	Output voltage range	Central DC operation	SELV	Order code
	mm	A	V	V		12NC
TrustSight LED 40-80mA 2.6W 1hr F	360 x 30 x 22	40-80	33-66	No	No	8718291 697824 00
TrustSight LED 40-80mA 2.6W 3hrs F	360 x 30 x 22	40-80	33-66	No	No	8718291 697848 00



Product specifications						
Product type	Dimensions	Output forward voltage range	Self test	Self test battery pack	SELV	Order code
	mm	V		Rate duration		12NC
TrustSight Pro L 20-95V 3W 1hr kit	245 x 30 x 21	20-95	Automatic	1 hr for 3W (NiMH)	No	871869648654200
TrustSight Pro L 20-95V 6W 1hr kit	245 x 30 x 21	20-95	Automatic	1 hr for 6W (NiMH)	No	871869648686300
TrustSight Pro L 20-95V 3W 3hrs kit	245 x 30 x 21	20-95	Automatic	3 hrs for 3W (NiMH)	No	871869648688700
TrustSight Basic L 20-95V 3W 1hr kit	245 x 30 x 21	20-95	Manual	1 hr for 3W (NiMH)	No	871869652585200
TrustSight Basic L 20-95V 6W 1hr kit	245 x 30 x 21	20-95	Manual	1 hr for 6W (NiMH)	No	871869652587600
TrustSight Basic L 20-95V 3W 3hrs kit	245 x 30 x 21	20-95	Manual	3 hrs for 3W (NiMH)	No	871869652591300

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



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



LCN8600/00 MultiOne Interface USB2DALI

The interface that can be used with the MultiOne PC software to commission, configure, diagnose drivers via the DALI interface.



LCN9610 or LCN9620 MultiOne SimpleSet Interface

The tools can be used with the MultiOne PC software to configure drivers wirelessly using SimpleSet® Technology.

Product specifications

Product type	Order code
	12NC
LCN8600/00 MultiOne interface USB2DALI	9137 003 46703
LCN8650/10 MultiOne interface USB2ZigBee	9137 003 59203
LCN 9610 MultiOne interface SimpleSet®	9290 009 99400
LCN 9620 MultiOne interface SimpleSet®	9290 009 99500

2 MultiOne Software

Supporting MultiOne Software

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

System requirements:

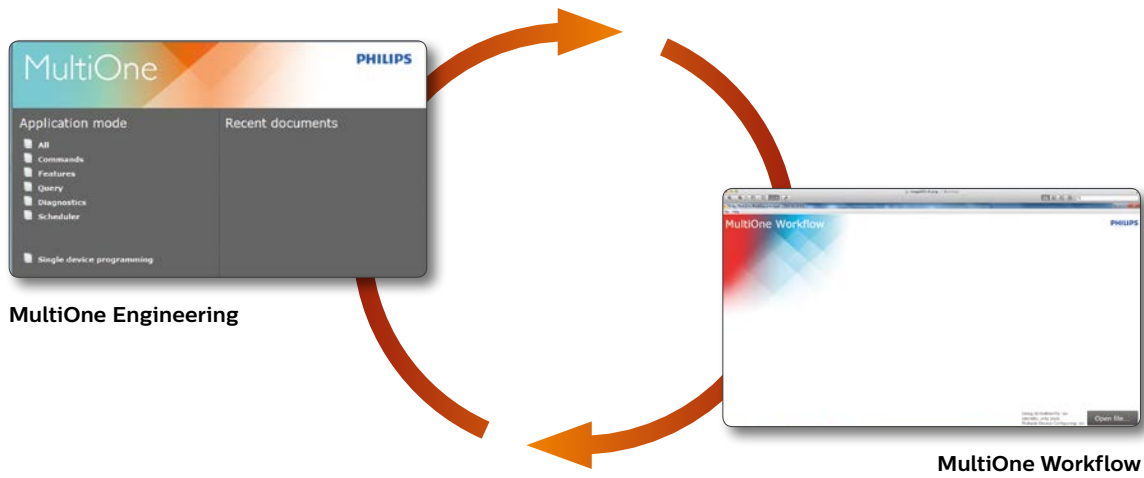
- Windows PC or laptop
- Microsoft windows 7, 8.0, 8.1 (support of Windows XP will stop in end 2015)
- USB 2.0 ports (Two free ports preferred)
- Min 35 MB of free disk space
- Microsoft .NET Framework 3.5 SP1

Free download

Find out more about MultiOne software via www.philips.com/multiOne

Philips MultiOne configurator

All programmable Outdoor, Indoor (Linear and Point) LED systems can be configured with the MultiOne configurator. Also all existing programmable conventional Philips systems, HID and FLUO can be configured with the same tool. Using the unique tool along with the installation of the software makes flexibility comes alive, providing you with access to all featured built in within the driver.



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 costdown 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.

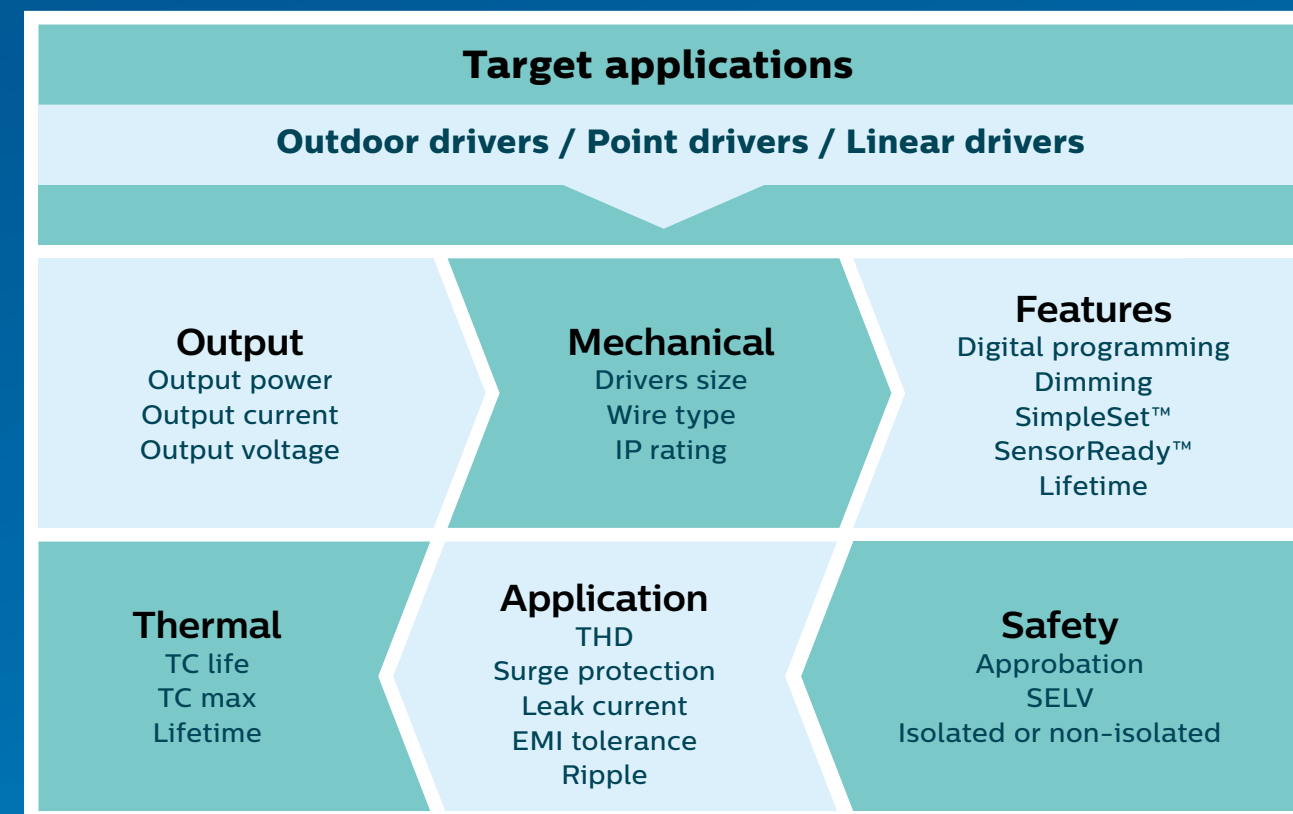
www.philips.com/MultiOne

Configurable device features
Active cooling
Module temperature protection
DC emergency
End of life indication
Light source operating hours
Energy meter
Lamp burn-in
Lamp selection
Quick lamp start
Adjustable output current
Adjustable light output
Adjustable startup time
Constant light output
Constant light output Lite
Dimming interface
1-10 V dim level
AmpDim
LumiStep
LineSwitch
Touch and dim
Min dim level
Dynadimmer
Dynadimmer Lite
Corridor mode



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.



Explanation Drivers namings



Xitanium	75W	0.7-2	TD	R	230V	/H	iXt
							Protection: Xt: Maximum reliable sXt: Proven reliable iXt: Industry reliable
							Housing: Enclosure Designation
							Input voltage: 230V: 220V-240V input for Asia and Europe INT: 120V-277V input fro American GL: 120V-277V+230V input for Global HV: 347V-480V input for industrial installations in Canada and US
							Config: S: SimpleSet™ N: NTC L: LineSwitch R2/R3: Resistor Setting AM: Manual Adjustable Output Current F: Auxilary Power for Fan
							Control: LE: Leading Edge TE: Trailing edge 0-10V: 0 to 10V dimming 1-10V: 1 to 10V dimming D: Dali TD: Touch Dali LS: Lumistep SD: StepDim
							Range of output current: Output current range
							Power: 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							

