



PHILIPS

Xitanium

LED outdoor drivers

A man in a suit is driving a car at night, looking out the window. The background is a blurred city street with many lights.

Reliable Xtreme  
**technology for demanding**  
LED applications

Xitanium FULL and LITE programmable LED drivers

# Xitanium LED Xtreme drivers are the ideal solution for LED luminaires...

... which require high reliability in demanding outdoor and industrial environments. Intense heat, frigid cold, hail, lightning, dust clouds. Outdoor and industrial luminaires must withstand unpredictable conditions in addition to everyday stress resulting from varying temperatures, moisture, and external contact. At the same time, outdoor and industrial luminaires must perform in response to their difficult surroundings: having the right light level at the right time, adjusting light levels during critical situations, and bearing damaging forces over a long lifetime in vulnerable, hard-to-access locations.

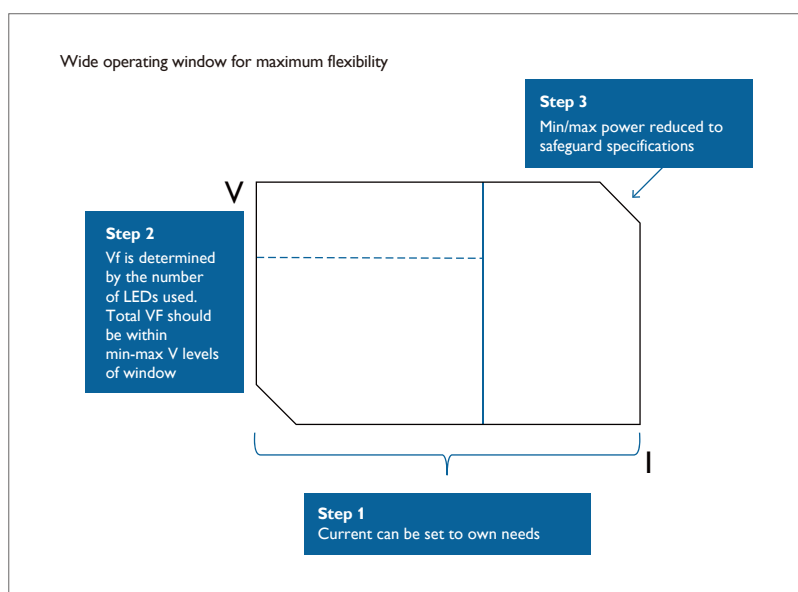


## **Xtreme reliability in Philips Xitanium drivers - what does it mean?**

Xitanium LED Xtreme drivers ensure luminaires will deliver exceptional light quality in harsh outdoor and industrial environments. Our robust drivers are specifically designed to withstand temperatures up to 90 ° C Tcase, powerful vibrations, high moisture levels, and surges of up to 8 kV over an industry-leading 100,000 hour lifetime. Together with our low failure rate (10%) and 5 year warranty, Xtreme reliability means confidence for those that need it most.



## A wide range, offering solutions for all different types of luminaires designs





# FULL and LITE Programmable drivers

Replacing the former Xitanium LED Outdoor Prog+ drivers with wires, our new Xitanium LED Xtreme programmable drivers are available in two configurations – the FULL programmable configuration – for OEMs that demand ultimate performance with complete flexibility – and the LITE programmable configuration – for OEMs that demand high value drivers that provide basic performance and flexibility options. Both models in our Xtreme programmable driver family provide superior specs and features, such as SimpleSet® – an effortless way to configure the driver without turning it on – that establish a new standard for outdoor luminaire durability and efficiency.



## **Xitanium LED Xtreme FULL programmable driver**

Philips Xitanium LED Xtreme FULL programmable drivers deliver the highest performance, protection, and configurability. This new FULL programmable driver family uses DALI 2.0 and LineSwitch as its external control interface, supports module temperature protection, and is very flexible with the many integrated control features and extended diagnostics. FULL programmable drivers are for OEMs that demand the most options and features for their luminaire, such as DALI, CLO, and 5-step DynaDimmer, without increasing logistical complexity.

## **Xitanium LED Xtreme LITE programmable driver**

Philips Xitanium LED LITE programmable drivers are value engineered to deliver a carefully selected feature set and high-end performance, making it a preferred choice for many outdoor applications. They support either a I-10V or LineSwitch interface, a flexible luminaire design with adjustable lumen setting, a simplified compensation for lumen depreciation via CLO LITE, and a basic 1-step DynaDimmer. LITE programmable drivers are for OEMs looking for standard, flexible LED drivers that do not compromise on quality.

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In the coming years, LEDs will continue to increase in efficiency, **creating generation and complexity challenges for OEMs.**”



### SimpleSet®

Xitanium LED Xtreme programmable drivers with SimpleSet® technology inside can be wirelessly configured at any stage during or after the manufacturing process, without any mains connection. In conjunction with the Philips MultiOne configurator software tool and the SimpleSet® programming device, you can wirelessly set the exact current level and driver features required for your luminaire, and even modify them later if necessary. This streamlines luminaire manufacturing and logistics processes – making them faster, more flexible, simple, and cost effective.

### Adjustable Output Current (AOC)

Adjustable Output Current (AOC) ensures flexible, “future proof” luminaire design. This feature allows the operation of various LED configurations from different LED manufacturers – giving OEMs the freedom to use one Philips Xitanium LED Xtreme programmable driver to address a vast range of luminaire current demands for years to come.

### Dimming Control Options

Xitanium LED LITE programmable drivers offer core dimming capabilities. A choice of 1-10V or LineSwitch safely connects our drivers to both new and existing control systems while the integrated DynaDimmer LITE provides 1-step configurable standalone control options.

Xitanium LED FULL programmable drivers deliver further flexibility via high performance dimming control features. For instance, DALI 2.0 is a bi-directional interface that allows OEMs to remotely control the luminaire and monitor installation with intelligent lighting asset management systems – meaning easy integration with equipment from different vendors. Luminaire efficiency is additionally enhanced with AmpDim – a mains-based dimming solution that reduces light output in response to a lower amplitude of mains voltage – and the integrated DynaDimmer, which combines easy-to-use software and a 5-step dimming schedule to enable end-users to re-program the dim times and dim levels as and when they wish.

### High Surge Capability

High surges due to lightning strikes or spikes from heavy machinery on mains net are a risk in many outdoor and industrial lighting installations. The Xitanium FULL and LITE programmable LED drivers guarantee up to 8kV of surge protection – meaning that they can withstand successive indirect lighting strikes and industry’s most severe mains nets.

# Xitanium LED Xtreme drivers

## FULL programmable drivers

Commercial name	Housing type	Output current range ( mA )	Output voltage range ( V )	Output power ( W )	Type of dimming
Xitanium FULL Prog 35W 1000 NLD C150 Xt	C150	350-1000	20-60	2-36	DALI / LineSwitch / Dynadimmer
Xitanium FULL Prog 35W 1000 NL1 C150 Xt	C150	350-1000	20-60	2-36	1-10V / LineSwitch / Dynadimmer
Xitanium FULL Prog 70W 1000 NLD C150 Xt	C150	350-1000	30-100	4-70	DALI / LineSwitch / Dynadimmer
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	C150	350-1000	30-100	4-70	1-10V / LineSwitch / Dynadimmer
Xitanium FULL Prog 110W 1000 NLD C150 Xt	C150	350-1000	60-200	6.5-110	DALI / LineSwitch / Dynadimmer
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	C150	350-1000	60-200	6.5-110	1-10V / LineSwitch / Dynadimmer
Xitanium FULL Prog 35W 0.3-1.0A NLD C150 sXt	C150	350-1000	20-60	2-36	DALI / LineSwitch / DynaDimmer
Xitanium FULL Prog 70W 0.3-1.0A NLD C150 sXt	C150	350-1000	30-100	4-70	DALI / LineSwitch / DynaDimmer
Xitanium FULL Prog 110W 0.3-1.0A NLD C150 sXt	C150	350-1000	30-100	4-70	DALI / LineSwitch / DynaDimmer
Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	S240	200-700	50-150	3-75	DALI/LineSwitch/DynaDimmer/AmpDim/DCemDIM
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	S240	300-1050	35-108	3-75	DALI/LineSwitch/DynaDimmer/AmpDim/DCemDIM
Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	S240	200-700	90-283	5-150	DALI/LineSwitch/DynaDimmer/AmpDim/DCemDIM
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	S240	300-1050	70-214	5-150	DALI/LineSwitch/DynaDimmer/AmpDim/DCemDIM

Commercial name	Module Temp. Protection	Efficiency range, max load ( % )	Input voltage range ( Vac )	Inrush current peak ( A )	Inrush current width to 50% ( $\mu$ s )	Power factor, 100% load	Power factor, dimmed 50%
Xitanium FULL Prog 35W 1000 NLD C150 Xt	yes	84	198-264	9.6	300	0.92	0.80
Xitanium FULL Prog 35W 1000 NL1 C150 Xt	yes	84	198-264	9.6	300	0.92	0.80
Xitanium FULL Prog 70W 1000 NLD C150 Xt	yes	88	198-264	9.6	300	0.98	0.92
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	yes	88	198-264	9.6	300	0.98	0.92
Xitanium FULL Prog 110W 1000 NLD C150 Xt	yes	89	198-264	9.6	300	0.98	0.95
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	yes	89	198-264	9.6	300	0.98	0.95
Xitanium FULL Prog 35W 0.3-1.0A NLD C150 sXt	yes	84	198-264	9.6	300	0.96	0.87
Xitanium FULL Prog 70W 0.3-1.0A NLD C150 sXt	yes	84	198-264	9.6	300	0.98	0.92
Xitanium FULL Prog 110W 0.3-1.0A NLD C150 sXt	yes	84	198-264	9.6	300	0.98	0.92
Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	yes	92	198-264	46	250	0.98	0.96
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	yes	92	198-264	46	250	0.98	0.96
Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	yes	93	198-264	53	300	0.99	0.96
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	yes	93	198-264	53	300	0.99	0.96

Commercial name	Tc life ( °C )	Lifetime @ Tc life, 90% survivals ( hrs )	Order code EOC
Xitanium FULL Prog 35W 1000 NLD C150 Xt	75	100000	8718291 756439 00
Xitanium FULL Prog 35W 1000 NL1 C150 Xt	75	100000	8718291 756415 00
Xitanium FULL Prog 70W 1000 NLD C150 Xt	75	100000	8718291 756491 00
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	75	100000	8718291 756477 00
Xitanium FULL Prog 110W 1000 NLD C150 Xt	75	100000	8718291 756552 00
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	75	100000	8718291 756538 00
Xitanium FULL Prog 35W 0.3-1.0A NLD C150 sXt	75	100,000	8718696 521014 00
Xitanium FULL Prog 70W 0.3-1.0A NLD C150 sXt	75	100,000	8718696 521212 00
Xitanium FULL Prog 110W 0.3-1.0A NLD C150 sXt	75	100,000	8718696 521038 00
Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	75	100000	8718696 481448 00
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	75	100000	8718696 481462 00
Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	80	100000	8718696 481486 00
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	80	100000	8718696 481509 00

## LITE programmable drivers

Commercial name	Housing type	Output current range (mA)	Output voltage range (V)	Output power (W)	Type of dimming	Efficiency range, max load (%)	Input voltage range (Vac)	Inrush current peak (A)
Xi LP 35W 0.3-1.0A S1 230V C150 sXt	C150	300-1050	20-60	1.4-36	1-10 V/Dynadimmer LITE	87	198-264	33
Xi LP 40W 0.2-0.7A S1 230V S175 sXt	S175	200-700	25-77	4-40	1-10 V/Dynadimmer LITE	89	198-264	27
Xi LP 40W 0.2-0.7A SL 230V S175 sXt	S175	200-700	25-77	4-40	LineSwitch/Dynadimmer LITE	89	198-264	27
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	S175	300-1050	20-54	4-40	1-10 V/Dynadimmer LITE	88	198-264	27
Xi LP 40W 0.3-1.0A SL 230V S175 sXt	S175	300-1050	20-54	4-40	LineSwitch/Dynadimmer LITE	89	198-264	27
Xi LP 70W 0.2-0.7A S1 230V C150 sXt	C150	200-700	50-150	4-70	1-10 V/Dynadimmer LITE	90	198-264	42
Xi LP 70W 0.2-0.7A SL 230V C150 sXt	C150	200-700	50-150	4-70	LineSwitch/Dynadimmer LITE	90	198-264	42
Xi LP 70W 0.3-1.0A S1 230V C150 sXt	C150	300-1050	32-100	4-70	1-10 V/Dynadimmer LITE	90	198-264	42
Xi LP 70W 0.3-1.0A SL 230V C150 sXt	C150	300-1050	32-100	4-70	LineSwitch/Dynadimmer LITE	90	198-264	42
Xi LP 75W 0.2-0.7A S1 230V S240 sXt	S240	200-700	50-150	4-75	1-10 V/Dynadimmer LITE	92	198-264	46
Xi LP 75W 0.2-0.7A SL 230V S240 sXt	S240	200-700	50-150	5-75	LineSwitch/Dynadimmer LITE	92	198-264	46
Xi LP 75W 0.3-1.0A S1 230V S240 sXt	S240	300-1050	35-108	4-75	1-10 V/Dynadimmer LITE	91	198-264	46
Xi LP 75W 0.3-1.0A SL 230V S240 sXt	S240	300-1050	35-108	5-75	LineSwitch/Dynadimmer LITE	91	198-264	46
Xi LP 110W 0.2-0.7A S1 230V C150 sXt	C150	200-700	70-220	6.5-110	1-10 V/Dynadimmer LITE	91	198-264	42
Xi LP 110W 0.2-0.7A SL 230V C150 sXt	C150	200-700	70-220	6.5-110	LineSwitch/Dynadimmer LITE	91	198-264	42
Xi LP 110W 0.3-1.0A S1 230V C150 sXt	C150	300-1050	50-160	6.5-110	1-10 V/Dynadimmer LITE	91	198-264	42
Xi LP 110W 0.3-1.0A SL 230V C150 sXt	C150	300-1050	50-160	6.5-110	LineSwitch/Dynadimmer LITE	91	198-264	42
Xi LP 150W 0.2-0.7A S1 230V S240 sXt	S240	200-700	90-283	7-150	1-10 V/Dynadimmer LITE	93	198-264	53
Xi LP 150W 0.2-0.7A SL 230V S240 sXt	S240	200-700	90-283	9-150	LineSwitch/Dynadimmer LITE	93	198-264	53
Xi LP 150W 0.3-1.0A S1 230V S240 sXt	S240	300-1050	70-214	7-150	1-10 V/Dynadimmer LITE	93	198-264	53
Xi LP 150W 0.3-1.0A SL 230V S240 sXt	S240	300-1050	70-214	10-150	LineSwitch/Dynadimmer LITE	93	198-264	53

Commercial name	Inrush current width to 50% ( $\mu$ s)	Power factor, 100% load	Power factor, dimmed 50%	Tc life ( $^{\circ}$ C)	Lifetime @ Tc life, 90% survivals (hrs)	Order code EOC
Xi LP 35W 0.3-1.0A S1 230V C150 sXt	290	0.95	0.87	75	100,000	8718696 526651 00
Xi LP 40W 0.2-0.7A S1 230V S175 sXt	265	0.99	0.96	70	100,000	8718696 470329 00
Xi LP 40W 0.2-0.7A SL 230V S175 sXt	265	0.99	0.96	70	100,000	8718696 475928 00
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	265	0.99	0.97	70	100,000	8718696 475966 00
Xi LP 40W 0.3-1.0A SL 230V S175 sXt	265	0.99	0.97	70	100,000	8718696 475942 00
Xi LP 70W 0.2-0.7A S1 230V C150 sXt	280	0.98	0.95	75	100,000	8718696 477380 00
Xi LP 70W 0.2-0.7A SL 230V C150 sXt	280	0.98	0.95	75	100,000	8718696 477342 00
Xi LP 70W 0.3-1.0A S1 230V C150 sXt	280	0.98	0.95	75	100,000	8718696 477403 00
Xi LP 70W 0.3-1.0A SL 230V C150 sXt	280	0.98	0.95	75	100,000	8718696 477366 00
Xi LP 75W 0.2-0.7A S1 230V S240 sXt	250	0.98	0.96	75	100,000	8718696 481547 00
Xi LP 75W 0.2-0.7A SL 230V S240 sXt	250	0.98	0.96	75	100,000	8718696 481561 00
Xi LP 75W 0.3-1.0A S1 230V S240 sXt	250	0.98	0.96	75	100,000	8718696 481585 00
Xi LP 75W 0.3-1.0A SL 230V S240 sXt	250	0.98	0.96	75	100,000	8718696 481608 00
Xi LP 110W 0.2-0.7A S1 230V C150 sXt	280	0.99	0.97	75	100,000	8718696 477465 00
Xi LP 110W 0.2-0.7A SL 230V C150 sXt	280	0.99	0.97	75	100,000	8718696 477427 00
Xi LP 110W 0.3-1.0A S1 230V C150 sXt	280	0.99	0.97	75	100,000	8718696 477489 00
Xi LP 110W 0.3-1.0A SL 230V C150 sXt	280	0.99	0.97	75	100,000	8718696 477441 00
Xi LP 150W 0.2-0.7A S1 230V S240 sXt	300	0.99	0.96	80	100,000	8718696 481646 00
Xi LP 150W 0.2-0.7A SL 230V S240 sXt	300	0.99	0.96	80	100,000	8718696 481660 00
Xi LP 150W 0.3-1.0A S1 230V S240 sXt	300	0.99	0.96	80	100,000	8718696 481684 00
Xi LP 150W 0.3-1.0A SL 230V S240 sXt	300	0.99	0.96	80	100,000	8718696 481707 00



industry



Outdoor

