

PHILIPS

Xitanium

LED outdoor drivers



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

Compact housing



Stretched housing



Wide operating window for maximum flexibility

Step 2
Vf is determined by the number of LEDs used. Total Vf should be within min-max V levels of window

Step 3
Min/max power reduced to safeguard specifications

Step 1
Current can be set to own needs



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 1-10V 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	Dimming range (%)	Module Temp. Protection	Efficiency range, max load (%)
Xitanium FULL Prog 35W 1000 NLD C150 Xt	C150	100-1000	20-60	2-36	DALI / LineSwitch / Dynadimmer	100-10	yes	84
Xitanium FULL Prog 35W 1000 NL1 C150 Xt	C150	100-1000	20-60	2-36	1-10V / LineSwitch / Dynadimmer	100-10	yes	84
Xitanium FULL Prog 70W 1000 NLD C150 Xt	C150	100-1000	30-100	4-70	DALI / LineSwitch / Dynadimmer	100-10	yes	88
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	C150	100-1000	30-100	4-70	1-10V / LineSwitch / Dynadimmer	100-10	yes	88
Xitanium FULL Prog 110W 1000 NLD C150 Xt	C150	100-1000	60-200	6.5-110	DALI / LineSwitch / Dynadimmer	100-10	yes	89
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	C150	100-1000	60-200	6.5-110	1-10V / LineSwitch / Dynadimmer	100-10	yes	89

Commercial name	Input voltage range (Vac)	Inrush current peak (A)	Inrush current width to 50% (μ s)	Power factor, 100% load	Power factor, dimmed 50%	Tc life ($^{\circ}$ C)	Lifetime @ Tc life, 90% survivals (hrs)	Order code EOC
Xitanium FULL Prog 35W 1000 NLD C150 Xt	198-264	9.6	300	0.92	0.80	75	100000	8718291 756439 00
Xitanium FULL Prog 35W 1000 NL1 C150 Xt	198-264	9.6	300	0.92	0.80	75	100000	8718291 756415 00
Xitanium FULL Prog 70W 1000 NLD C150 Xt	198-264	9.6	300	0.98	0.92	75	100000	8718291 756491 00
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	198-264	9.6	300	0.98	0.92	75	100000	8718291 756477 00
Xitanium FULL Prog 110W 1000 NLD C150 Xt	198-264	9.6	300	0.98	0.95	75	100000	8718291 756552 00
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	198-264	9.6	300	0.98	0.95	75	100000	8718291 756538 00

LITE programmable drivers

Commercial name	Housing type	Output current range (mA)	Output voltage range (V)	Output power (W)	Type of dimming	Dimming range (%)	Module Temp. Protection	Efficiency range, max load (%)
Xi LP 40W 0.2-0.7A S1 230V S175 sXt	S175	200-700	25-77	4-40	1-10 V/Dynadimmer LITE	100-21	no	89
Xi LP 40W 0.2-0.7A SL 230V S175 sXt	S175	200-700	25-77	4-40	LineSwitch/Dynadimmer LITE	100-21	no	89
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	S175	300-1050	20-54	4-40	1-10 V/Dynadimmer LITE	100-20	no	88
Xi LP 40W 0.3-1.0A SL 230V S175 sXt	S175	300-1050	20-54	4-40	LineSwitch/Dynadimmer LITE	100-20	no	89

Commercial name	Input voltage range (Vac)	Inrush current peak (A)	Inrush current width to 50% (μ s)	Power factor, 100% load	Power factor, dimmed 50%	Tc life ($^{\circ}$ C)	Lifetime @ Tc life, 90% survivals (hrs)	Order code EOC
Xi LP 40W 0.2-0.7A S1 230V S175 sXt	220-240	27	265	0.99	0.96	70	100000	871869647032900
Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220-240	27	265	0.99	0.96	70	100000	871869647592800
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	220-240	27	265	0.99	0.97	70	100000	871869647596600
Xi LP 40W 0.3-1.0A SL 230V S175 sXt	220-240	27	265	0.99	0.97	70	100000	871869647594200



