



The ideal configurable solution for outdoor LED-based lighting applications

Philips Xitanium Full and LITE Programmable LED drivers –
Xtreme reliable technology designed around your needs



PHILIPS



LED-based light sources are an excellent solution 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 flexible drivers. The new Philips Xitanium FULL and LITE Programmable LED drivers are specifically designed to deliver the ultimate performance, protection and configurability, while meeting the strict European approbation requirements.

Configurability

- Quicker time-to-market & simplified logistics; one driver for many designs
- Wide operating window offering maximum flexibility. Differentiate on lifetime, cost and efficiency
- Adjustable control features ensure the right light level is available at the right time

Connectivity

- Real-time control with online status feedback via DALI protocol
- Further energy savings possible via remote control

Reliability

Lower maintenance costs due to

- Robust design, capable of withstanding the harsh outdoor conditions
- Long lifetime and high survival rate
- Integrated Xtreme lightning protection and thermal protection circuits

Features

- Wide programmable operating window up to 1 A, with excellent performance even in low load conditions
- Push-in connectors for easy and automatic assembly, with connection pads for test- and program-jigs
- Integrated Xtreme lightning protection, capable to handle surges up to 10 kV/5 kA
- SoftStart, enabling more drivers to be connected to a single fuse or MCB
- Multiple external and stand-alone control options; DALI, 1-10V, LineSwitch, CLO, Dynadimmer, and many more
- FULL Programmable versions, offering full feature set and Xtreme reliability
- LITE Programmable versions, value engineered to deliver a basic feature set and high-end performance
- Suitable for Class I isolation systems, with double isolation from input to output

Applications

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

Product specifications

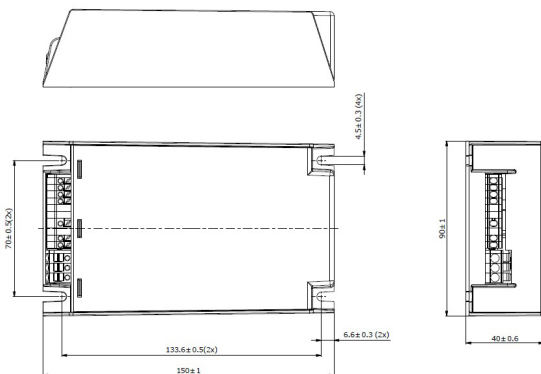
Type	Output current range (mA)	Output voltage range (V)	Type of dimming	Dimming range (%)	Efficiency range, max load (%)	Input voltage range (Vac)	Inrush current peak width to 50 % (A)	Nom power factor 100 % load	Nom power factor dimmed 50 %	Tc life (°C)	Lifetime @ Tc life 90 % survivals (hrs)
Xitanium FULL Prog 110W 1000 NLD C150 Xt	100 - 1000	60 - 200	DALI, LineSwitch, Dynadimmer	100 - 10	≥ 90	198 - 264	14	0.98	0.95	75	100,000
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	100 - 1000	60 - 200	1-10V, LineSwitch, Dynadimmer	100 - 10	≥ 90	198 - 264	14	0.98	0.95	75	100,000
Xitanium LITE Prog 110W 1000 NL C150 OD	100 - 1000	60 - 200	LineSwsitch, Lumistep	100 - 10	≥ 90	198 - 264	14	0.98	0.95	75	60,000
Xitanium FULL Prog 70W 1000 NLD C150 Xt	100 - 1000	30 - 100	DALI, LineSwitch, Dynadimmer	100 - 10	≥ 88	198 - 264	9.6	0.98	0.95	75	100,000
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	100 - 1000	30 - 100	1-10V, LineSwitch, Dynadimmer	100 - 10	≥ 88	198 - 264	9.6	0.98	0.95	75	100,000
Xitanium LITE Prog 70W 1000 NL C150 OD	100 - 1000	30 - 100	LineSwsitch, Lumistep	100 - 10	≥ 88	198 - 264	9.6	0.98	0.95	75	60,000
Xitanium FULL PROG 35W 1000 NLD C150 Xt	100 - 1000	20 - 60	DALI, LineSwitch, Dynadimmer	100 - 10	≥ 84	198 - 264	9.6	0.98	0.95	75	100,000
Xitanium FULL PROG 35W 1000 NL1 C150 Xt	100 - 1000	20 - 60	1-10V, LineSwitch, Dynadimmer	100 - 10	≥ 84	198 - 264	9.6	0.98	0.95	75	100,000

General product characteristics

Rated frequency	: 50/60 Hz	Tcase max	: +90°C	Isolation class	: Class I
T ambient	: -30 to +60°C	THD	: 20%		

Ordering & packing data

Product Name	Weight (kg)	Qty. box packing (pcs)	EOC	Logistic code 12NC
Xitanium FULL Prog 110W 1000 NLD C150 Xt	0.77	12	8718291 56552 00	9290 008 83906
Xitanium FULL Prog 110W 1000 NL1 C150 Xt	0.77	12	8718291 56538 00	9290 008 84006
Xitanium LITE Prog 110W 1000 NL C150 OD	0.77	12	8718291 56514 00	9290 008 84106
Xitanium FULL Prog 70W 1000 NLD C150 Xt	0.77	12	8718291 56491 00	9290 008 84306
Xitanium FULL Prog 70W 1000 NL1 C150 Xt	0.77	12	8718291 56477 00	9290 008 84406
Xitanium LITE Prog 70W 1000 NL C150 OD	0.77	12	8718291 56453 00	9290 008 84506
Xitanium FULL PROG 35W 1000 NLD C150 Xt	0.77	12	8718291 56439 00	9290 008 84606
Xitanium FULL PROG 35W 1000 NL1 C150 Xt	0.77	12	8718291 56415 00	9290 008 84706

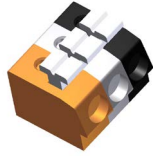


	Explanation	Nominal value (mm)	Tolerance
A1	Length	150	+/- 1
A2	Fixed hole distance length	133.6	+/- 0.5
B1	Width	90	+/- 1
B2	Fixed hole distance width	70	+/- 0.5
C1	Height	40	+/- 0.6
D1	Fixing hole diameter	4.5	
W	weight	0.77 kg ²	

The Xitanium Programmable outdoor LED drivers have WAGO push in connectors.

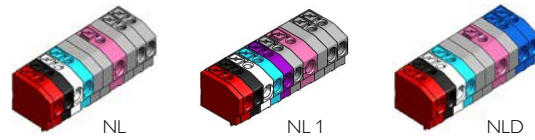
The connectors are grouped in:

- Power connectors
 - Mains, LineSwitch



Connector pin name	Color
Mains input (Line)	Black
Mains input (neutral)	White
LineSwitch (ref. to neutral)	Orange

- Functional connectors
 - LED output, NTC,...



Connector pin name	(alternative name)	Color	(alternative color)
DALI1	(PROG1)	Blue (NLD)	Grey (NL/NL 1)
DALI2	(PROG2)	Blue (NLD)	Grey (NL/NL 1)
{spacer}		Grey	
Functional Earth		Pink	
1-10V [-]	(not used)	Grey (NL1)	Grey spacer (NL/NLD)
1-10V [+]	(not used)	Purple (NL1)	Grey spacer (NL/NLD)
NTC		Light blue	
NTC common		White	
LED [-]		Black	
LED [+]		Red	

Feature setting

The Xitanium FULL and LITE Programmable LED drivers can be configured via the MultiOne tool and corresponding software.

Philips LCN 8600 MultiOne Interface USB2DALI

USB cable



Philips MultiOne software package



Minimum system requirements

- Windows PC or laptop
- Microsoft Windows XP +SP3 or Windows 7
- USB 2.0 ports (preferable two free ports)
- Min 30MB of free disk space
- Microsoft .NET Framework 3.5 SP1 (!)

More information of this tool and how to program it, can be found on the website www.philips.com/multione





For more information, visit:
www.philips.com/Xitanium

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03/2015

Data subject to change.