



Design Guide & Product Catalog
1st Edition *2015*

Welcome!



Best wishes,
Roland Gergácz
Chief Executive Officer

I am excited to present you our very first catalog that was created to be an information source for all of your questions regarding alternative energy solutions.

We look forward to assisting such conscious people who started to question the conventional, spendthrift, mostly inefficient and costly energy consumption of our age. The International PolluxLED is committed to offer a solution for those with its distributed lighting products and other electrical equipments who are on the verge of reducing their electricity consumption and ecological footprint drastically while increasing the quality of the illumination in their everyday life, thus making their environment more safe, appealing and convenient. The operation of every item of our portfolio is based on an innovative solution that makes supreme energy efficiency and partial or full energy independence possible which is a huge chance these times when the world is struggling to find a reliable way out of the more and more severe energy crisis.

WE HOPE YOU ENJOY LOOKING THROUGH OUR PORTFOLIO THAT WAS CONSTRUCTED UNDER CLOSE EXAMINATION BY OUR PROFESSIONAL TEAM TO FULFILL ALL YOUR NEEDS. WE ARE COMMITTED TO MAKE YOUR HOME ENVIRONMENT OR BUSINESS MORE EFFICIENT AND EFFECTIVE WHILE MINIMIZING YOUR ENERGY COSTS.

Table of Contents

WHY LED BULBS? WHY SOLAR ENERGY? 4

THE INNOVATIVE TECHNOLOGY WE USE 6

CONVERTING TO LED LIGHTS 7

THE INTERNATIONAL POLLUXLED DISTRIBUTED PRODUCTS 9

LED STREET LIGHTING PRODUCTS 10

SOLAR STREET LIGHTING PRODUCTS 11

HYBRID SOLAR SYSTEMS 13

GENERATORS 14

INDUSTRIAL LIGHTING PRODUCTS 16

OFFICE LIGHTING PRODUCTS 17

PHILIPS INDUSTRIAL LIGHTING PRODUCTS 16

OSRAM OFFICE LIGHTING PRODUCTS 18

HOME LIGHTING PRODUCTS 19

WHY BE OUR NEW CLIENT? 21

WARRANTY 22

HAVE AN ISSUE? WE ARE HERE TO HELP YOU! 22

REMARKS 23

EDITORIAL NOTICE 23

LEGAL NOTICE 23

Why LED bulbs? Why solar energy?

We would like to present two kinds of revolutionary innovations in the following that have the ability to alter our lives and help us to move towards to a much more conscious lifestyle. We highlight on the numerous advantages of LED lamps and solar panels as these are the two basic technologies that the operation of the products we distribute is based on.



WHY LED BULBS? LED lights

YOU MUST HAVE HEARD ABOUT THE BENEFITS AND SPECIALTY OF LED LIGHT, BUT YOU MAY NOT KNOW ITS EXACT FEATURES THAT ARE MAKING IT THE MOST ENERGY-SAVING SOLUTION ON THE MARKET.

#1 LONG LIFETIME

For instance, did you know that if you use a LED light bulb every day of the week, it can go on working approximately 10 years? In the end of its exceptionally long lifetime it won't just burn out overnight but starts illuminating gradually less powerful.

#2 HIGHLY EFFICIENT

LED light bulbs have an estimated energy efficiency of 40% compared to conventional lighting. This means that LEDs use far less electricity which phenomena will present itself on your much lower energy bills from the very beginnings.

#3 ECO-FRIENDLY

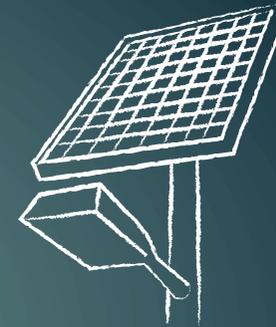
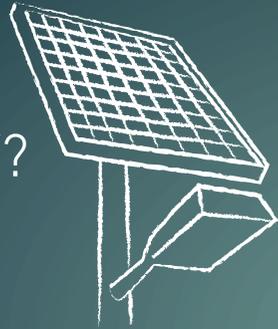
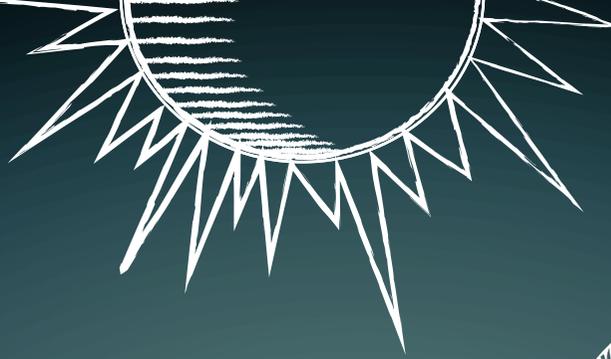
Thanks to your LED light bulbs - using much less energy and having no warm-up period - your carbon footprint will be reduced dramatically. Furthermore, the material of LEDs is free of toxic chemicals and thus is recyclable

#4 EXTREMELY DURABLE

LED lights are also called Solid State Lighting (SSL) having sturdy components that can withstand harsh conditions - meaning being dropped or extreme weather.

#5 EXCELLENT ILLUMINAT

With LEDs you are able to deliver light wherever you want it without wasting any illumination, achieving higher application efficiency that it is possible with a traditional light bulb.



WHY SOLAR ENERGY? *Solar Panels*

#1 RENEWABLE

The sun is an infinite natural energy source which means we will never run out of it and is extremely abundant whether you live on the North Pole or in a mostly cloudy country.

#2 FREE

Sunlight is “wireless” and totally free. Of course, you have to invest in its installation, but after that you won't get a bill every month ever.

#3 ECO-FRIENDLY

During operation solar panels are completely emission free – being a perfect alternative to fossil fuels - and make absolutely no noise, therefore have no harmful environmental effects at all.

#4 SETS YOU FREE

Solar panels are immune to power cuts, thus it creates complete energy independence that goes without saying what an outstanding opportunity and advantage is!

#5 COST-EFFECTIVE

As demand for solar energy continuous to rise and its technology is evolving increasingly fast, the costs are driving down now. Payback time is getting shorter and makes it possible for more and more people to have a share in the abundance of solar energy.

The Innovative technology we use

WHY IS IT THAT THE TECHNOLOGY WE USE IS HIGHLY COST-EFFECTIVE AND ENERGY EFFICIENT?

A conventional sodium bulb uses 70 Watts/hour which is 87 Watts in reality. The light waste is huge even if your sodium bulb is brand new which makes its maintenance cost relatively high. And that just gets worse and worse with the time. A conventional light bulb has to be replaced within a few years – approximately 3 years – which makes those bulbs quite costly on the long run not to mention the harmful effect on the environment. The tiring effect of the sodium bulbs on our eyes is widely known due to its yellow hue. This kind of light alters the real colors of the environment and makes the traffic less safe and secure at night.

Using LEDs, these problems are diminished. As you know now, LED bulbs use far less electricity, but we made it that further reduction is available in energy consumption building into the LED lighting system a revolutionary sensor called automatic light dimmer. You may not have heard about that, so let us tell you what it is. Automatic dimming makes possible to control the lighting system, so the lighting will turn on and off as you set it. It means that if you want your home LED lighting to illuminate half less bright at night, the automatic dimmer will switch the high beam into a 50% lower beam during the time you preset it. In numbers it means an estimated 10-25% reduction in energy consumption

REMARK: WE REGARD AUTOMATIC DIMMING A FANTASTIC OPPORTUNITY IN THE HISTORY OF ILLUMINATION; HOWEVER, THERE ARE SOME CASES WHEN USING IT IS NOT RECOMMENDED OR IS COMPLETELY UNNECESSARY. FOR INSTANCE, IF THE ENERGY REQUIREMENT OF YOUR DEVICE IS LOWER THAN 20 WATTS, THERE IS NO NEED FOR IT, AT ALL. OR IN THE CASE OF A ROADWAY WE SUGGEST NOT TO USE IT IN CONTRAST TO A SIDE STREET WHERE FULL ILLUMINATION IS NOT THAT IMPORTANT ALL NIGHT.

LEDs lose brightness typically 30% of its light output across its lifespan – a conventional light bulb loses about 40% due to the lampshade and the environment within a few years. The very good news is that our eyes can't sense the 30% reduction in brightness at all as experience and studies show – in contrast to the 40% cut by a sodium bulb that is noticeably straight away. In opposite to traditional light bulbs, LEDs have neutral white light that has no harmful effect on human eyes.

To visualize what has been said above and for the better understanding we made some examples, so you can see the savings for yourself!

#Example 1 – PUBLIC LIGHTING

PolluxLED

Lighting of an average street (100pc)

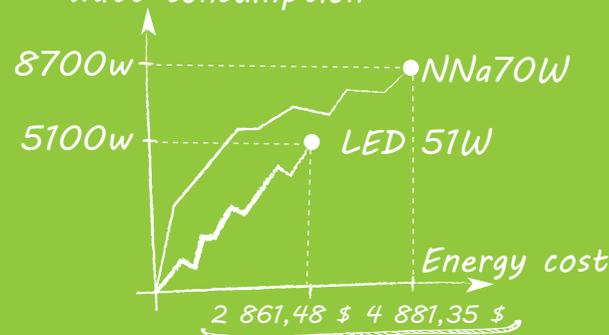
Lighting of an average small city (2000pc)

NNa 70w (High-pressure natrium) VS LED 51w

Real consumption 87 w!!

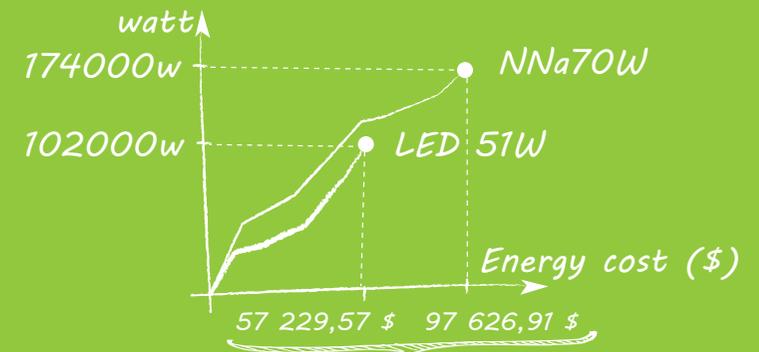
16cent (\$)/kw/h
15cent (€)/kw/h

"watt" consumption



10 hours/
day/365 days

Energy savings
2 019,87 \$



40 397,34 \$/year

Saving
41,38%

+

Dimming
function
10-25%

Converting
to LED
lights

#Example 2 - HOME LIGHTING

House Energy Saving

Normal → 60 watts bulb } 10 bulbs
LED → 10 watts } Replacement

Price → 15 \$/kwh

6 hours/day/365 days

Converting
to LED
lights



The International PolluxLED distributed products

SEE THROUGH THE PRODUCT TYPES
WE DEAL WITH AND IF ANY OF THEM
AROUSES YOUR INTEREST PLEASE VISIT
OUR WEBPAGE FOR THE FULL LIST OF
ALL PRODUCTS AND MORE DETAILED
INFORMATION!

OUR PARTNER COMPANIES

PHILIPS

OSRAM



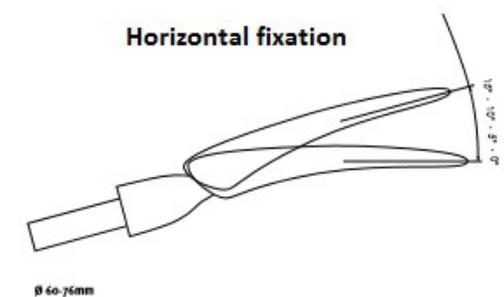
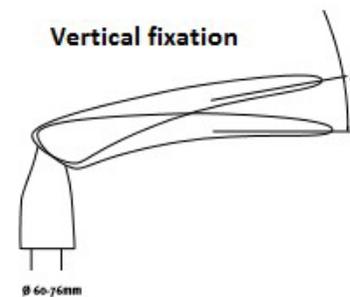
**Tungsr
am**
Schröder 

LED Street Lighting Products

Improve street lighting performance by upgrading from traditional light sources to the LED Street Lighting solution we offer while enjoying the several advantages of this unique technology, such as increasing energy efficiency, cutting down electricity bills notably and reducing the carbon emission drastically. The PolluxLED distributed LED roadway and street lights provide excellent visibility for drivers and pedestrians and enhance lives by improving safety and security therefore increasing comfort level and productivity. The LED street lights provide equable, homogeneous lighting contrary to the traditional sodium lamps – known for their yellow hue – spreading highly efficient illumination even in the darkest and hardly reachable parts of the environment.

SAMPLE PRODUCT

Tungram – Schreder Teceo 2



Solar Street Lighting Products

The Solar Street Lights we distribute were created to enable anyone to be partially or fully energy independent. These products provide permanent illumination to such locations where there is no other way to reach reliable light sources. The completely eco-friendly and highly cost-effective solar-powered lights will certainly transform the lives of the drivers and pedestrians by bringing light to the roads, streets, parks and parking lots, thus making a simple walk or a long trip safe and secure. Not to mention that wherever a solar outdoor light will be installed the value of its surroundings will rapidly increase and so will the community life as the inhabitants find themselves in a renewed, appealing environment. The solar path lights were designed to withstand extreme weather and work stably and properly as expected under normal conditions.

SAMPLE PRODUCT

Philips Solar Street Lighting Products



Solar Street Lighting Products

ADDED PHILIPS SOLUTION BENEFITS

	Philips Solution	Advantage
Luminare	Aluminium housing LEDs for light source Optics	Strong and safe Excellent heat dissipation IP65 protection High brightness and high efficacy of more than 100lm/W new age LEDs Optical engineering for uniform light distribution
	High efficiency driver & MPPT charge controller	Low power consumption meets IEC standards
Solar panel	Polycrystalline solar cells	Mature technology Improving Efficiency More Rugged Ease of availability
Battery	Tubular construction	Low discharge rate Ideal for Tropical conditions Low Maintenance Long Life
	75% Depth of Discharge	Long Life
	Polymer/Galvanised battery box	Weather-proof
	3 days autonomy	Long back-up Ideal for cloudy conditions
Pole	Galvanised pole	Rigid and safe Corrosion free
System	Integrated approach for system design extracting best performance from each part - <ul style="list-style-type: none"> • Top quality optics • optimum thermal management and heat sink design • microprocessor based charge controller and led driver maximizes the performance of panel & battery • Hybrid version optional for AC backup 	All the components are optimized for maximum energy with lowest sizing

Hybrid Solar Systems

First, what is a hybrid solar system? Simple, it is a solar system connected to the utility power grid and said to be one of the best and most reliable technology of our time. Setting up a hybrid solar system means continuous, never ending electric power and flexibility as it combines the best of a grid-tied system – its comfort – and an off-grid solar system – the ease that in the case of a power outage, you still have electric power.

Why do we recommend setting up a hybrid solar system? It has high efficiency and great energy saving ability while putting more money back in your pocket.

Further good news for those who are thinking about to start using a hybrid solar system is that many utility companies are committed to buying electricity from residents if they generate more electricity than needed. We suggest you to check it whether you can exploit this opportunity in your country – being legal there!

SAMPLE PRODUCT

Twin armed Philips Solar Street Lighting



Twin armed Philips Solar Street Lighting



Generator

WE KNOW HOW INCONVENIENT IT CAN BE TO HAVE AN ABRUPT POWER OUTAGE AND THUS HAVING YOUR AIR CONDITIONER BROKE DOWN WHILE THE HOTTEST WEATHER IS RAGING OUTSIDE. TO HAVE A GENERATOR WHEN THERE IS NO POWER ANYWAY CAN BE A SUBSTANTIAL RELIEF FOR MANY REASONS. THAT IS WHY WE LAY STRESS ON OFFERING YOU A GREAT VARIETY OF GENERATORS TO MAKE SURE YOU FIND THE ONE THAT SUITS YOU THE MOST AND CERTAINLY PROVIDES YOU A RELIABLE BACKUP POWER ANYTIME IN ANY CASES.

The PolluxLED distributed generators are divided into two groups depending on their performance. We can offer you:

1. Primary energy sources that are capable to operate year-round and can be overloaded for 1 hour by 10% every 12 hours.
2. Power sources for emergency or critical cases that are for temporarily usage with specified yearly restrictions. These equipments cannot be overloaded under any circumstances!

The control system of the generators can range from a simple version - that is, performing the basic tasks properly – to a more intelligent variation with which synchronized actuation is possible. The generators not only differ in performance but also in sizes and applications. No matter where and for what you want to use the equipments – heavy industry, hospitals or at home – we suggest you to feel free to try these excellent power sources!

The generators can be placed wherever feels comfortable to you – indoors, outdoors, in the attic or in the cellar - while meeting some standards that always have to be taken into consideration. If it is needed, soundproofing your chosen equipment is possible.



SAMPLE PRODUCT

Our main partner, Atlas Copco's 450KVA Diesel Generator

Model	QAS 14
Configuration	400V-3PH
Frequency	50 Hz
Rated speed	1500 r/min
Rated powder factor-lagging	0.8
Rated apparent powder-PRP	11 kW
Rated Voltage line to line	400 V
Rated current	19.7 A
Maximum sound powder level (LWA) according to 2000/14/EC OND	89 dB(A)
Maximum sound pressure level at 7m	63 dB(A)
Capacity fuel tank- standard frame	46L
Fuel autonomy at full load- high frame	30.6 h
Alternator	
Brand	Leroy Somer
Model	LSA40 S3
Degree of protection	IP23
Insulation class	H/H

Engine	
Brand	KUBOTA
Model	D1703M-BG
Rated net output	12.8 kW
Number of cylinders	3
Coolant	Water
Speed governing	Electronic
Dimensions and weight (standard frame)	
Dimensions (L x W x H)	1780mm x 850mm x 1162mm
Net weight	662 kg
Weight (ready to operate)	706 kg
Dimensions and weight (high frame)	
Dimensions (L x W x H)	1780mm x 850mm x 1162mm
Net weight	670 kg



Industrial Lighting Products

Whether you have a factory, a warehouse or any kinds of industrial unit, we would love to help you create the right lighting solution that will provide the success of your business. In the case of industrial lighting it can be crucial to save energy, cut the energy bills and reduce the carbon footprint. No matter which previously mentioned factor you find the most significant, we have the solution for you in any cases! The wide collection of the PolluxLED distributed Industrial Light Sources provide perfect visibility bringing homogenous illumination to the darkest, most complex factory while keeping your energy costs down and reducing your CO2 emissions dramatically.

SAMPLE PRODUCT

Philips Industrial Lighting Products



Office Lighting Products

Do you want to make your employees feel more comfortable at their workplace, thus make their work much more effective? Because this is what you do if you use the PolluxLED distributed Office Light Sources that boost vitality, influence your employees' emotions in a good way and improve their performance. We have a wide range of innovative solutions - everything from ceiling and wall lights to lamps and spotlights - that combine the advantages of LED light sources with an appealing design.

Who doesn't know the feeling when our eyes get tired because of the fluorescent lamps, the usual lighting of any workplace and have to blink often to keep our focus? While creating our diversified portfolio we bore this fact in mind and selected only such kinds of light sources that protect your eyes 100% and makes you feel like you were sitting outside under sunlight. If you choose the PolluxLED sold Office Light sources you can be certain that your employees' eyes won't get tired even in the end of the workday!



Office Lighting Products

SAMPLE PRODUCT

Osram Office Lighting Products



Home Lighting Products

Proper lighting will not only illuminate your place, but make your house come to life. Lighting is a crucial element of your home environment as providing safety and security, helping you to perform household tasks easily and last but not least creating the ambiance and atmosphere of your home. The PolluxLED distributed products with a wide range of styles, shapes and sizes will make your home look more appealing whether its design is modern, classic or eclectic.

And we have more good news! The light sources we sell are interchangeable which makes the process of upgrading your home lighting more simple and easy to be energy efficient and cost-effective. You don't have to do anything else just change your old and less efficient light sources to the ones you got from us and enjoy your new home environment that will certainly light up your life!

SAMPLE PRODUCT

Osram and Philips Home Lighting Products



Home Lighting Products

SAMPLE PRODUCT

Osram Office Lighting Products



BE OUR NEW CLIENT!

Why be our new client?

Why do our clients choose us? Because we always put them first. By having a customer-perceived service of high quality, the PolluxLED clients can enjoy a simplified approach towards living a greener, more energy efficient life while saving money.

How is it being our client?

IT'S SIMPLE AND CONVENIENT!

After getting in contact with us, we examine all the significant factors that occur – such as the purposes, needs and circumstances of our new customer – and make the most favorable choice together. By setting up our goal, we create the lighting design considering all collected data – including the relevant, local regulations, policies and frameworks – to make the most of our customer's conception. Afterwards making the lighting plans final, we call for our reliable and well-known partner companies to submit their proposals. Following the extensive tender procedure, we present the factual proposal to our client. If the finest tender gains our customer's approval, we order the chosen product(s) and arrange the delivery. For several reasons our scope of activities don't comprise the duty of installation, however, we are with the contractors in a close cooperation and always follow their work with attention. In case of having an issue with any contractors that can be a detriment to the result of our project please don't hesitate to get in touch with us immediately!

SUPPORT

Warranty

International PolluxLED embodies quality, reliability, durability and flexibility. Yet if your device starts showing any signs of troubles in functioning, call us at +36203877347 or email us at info@polluxled.hu immediately and we'll take care of the rest. Products repaired or replaced under warranty will be returned free of charge.

And how to know what your chosen product's warranty status is? The warranty period can differ per product. None of our items have an exact warranty expiry since we agree with each one of our customer on the warranty period before entering into the contract.

Exclusions

We are not responsible for direct or consequential damage resulting from a breach of warranty or condition such as lost or destroyed property.

Have an issue?

WE ARE HERE TO HELP YOU!

It is very important for us to make sure our clients are satisfied, so if you have any problems or any questions arise, we look forward to assisting you. Please call us at +36203877347, email us at info@polluxled.hu or contact our team members personally at their email addresses seen below.

András Fekete (Owner): andras.fekete@polluxled.hu

Roland Gergácz (CEO): roland.gergacz@polluxled.hu

János Horváth (Financial Manager): janos.horvath@polluxled.hu

Remarks

EDITORIAL NOTICE

While we did our best to keep this catalog accurate, it can occur that some detail and specification appear incorrect since the constant development of our product portfolio. Your opinion is very important to us, so please let us know if you find any information that may be inaccurate or have any comments or suggestions. Your feedback is always much appreciated and can be sent anytime at info@polluxled.hu.

LEGAL NOTICE

Unless otherwise indicated, this brochure and its content is the property of the International PolluxLED Ltd. No part of these pages may be used for any purpose other than non-commercial, personal or educational use. Using material for other purposes, as reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, is strictly prohibited without prior written permission. If permission is given by the website's respective owners to a third party to distribute, modify, reproduce in whole or in part the information, images, and data contained in their brochure, will only be given through direct correspondence with the website's respective owners.

All other logos, products and company names mentioned in the International PolluxLED Ltd. brochure are trademarks of their respective owners and subject to their own copyright laws.

Copyright © 2015 International PolluxLED Ltd., Inc. All Rights Reserved.

EXCELLENT QUALITY

SUSTAINABILITY

COST-EFFECTIVENESS

This is what the PolluxLED stands for. Use the PolluxLED distributed products of top quality and save energy while leaving more money in your pocket and reducing your ecological footprint!

*We look forward
to assisting you!*

**EMAIL ANY OF OUR
TEAM MEMBERS:**

ANDRÁS FEKETE (OWNER):

andras.fekete@polluxled.hu

ROLAND GERGÁ CZ (CEO):

roland.gergacz@polluxled.hu

JÁNOS HORVÁTH (FINANCIAL MANAGER):

janos.horvath@polluxled.hu

Or log on: www.polluxled.hu