



SHINING STAR LIGHTING CO.

**ALL IN ONE SOLAR
STREET LIGHT 100 - 120 W**

Model : SH-S/SLS-160W

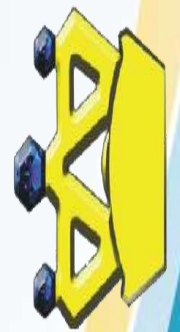


Integrated Solar Street Light

365 Days lighting up your life



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SHINING STAR LIGHTING CO.

Solar Street Light Model :

SH-S/SLS-160W

Catalog Content

1. Company Profile

2. Our Products Parameters

3. Our Project Solar Street light

4. Product Advantages And Parts

5. Certified Product



1. Company Profile

SHINING STAR LIGHTING

Shining Star Lighting Co., is a leading manufacturer for LED lighting and Solar Light for 8 years we are professional in outdoor lighting . we are member in Qndiao inventors Academy in china - we have three factories to do our products parts and assamble it plus we have Markteing Managment office in Shanghai S our factories Located in : .

AC outdoor lighting Factory Address :

Guangdong Province, Zhongshan City, West Ganglong South Road No. 20 Industrial Factory Building 2 China

Solar lighting Factory Address :

Tongyi Science and Technology Innovation Park,3rd Floor, Building 7, Guzhen Town, Zhongshan City

Cable Factory Address :

Shenzhen City Longgang District Pinghu Street Pingxin North Road No. 83 Shenzhen - china

Shanghai office Address:

No. 8 , 1098 Chuansha Road Pudong new District Shanghai - China

www.shiningstarlighting.com
info@shiningstarlighting.com

Tel : +86 15093375674
: + 86 15618601747



2. Our Products Parameters



SHINING STAR



model	SH-S/SLS-60	SH-S/SLS- 90	SH-S/SLS- 120	SH-S/SLS- 160
Power	35W	45W	70W	110W
monocrystalline silicon Solar panel	18V 60W	18V 80W	36V 100W	36V 160 W
Battery Life time	5 years	5 years	5 years	5 years
Battery Type	Lithium	Lithium	Lithium	Lithium
Lumen(LM)	184 lm /w	184 lm /w	184 lm /w	184 lm /w
Product size	659*367*63.5mm	789*367*64mm	1000*430*83.5mm	1195*505*83.5mm
Viewing Angle	55*150 degree - 70 *145 degree			
Induction mode	Light control+remote control			
Material	Die-cast aluminum			
Charge time:by sun	7 hours (with enough strong shine)			
Working time (Count by hours)	4 rainy days			
Working Temperature:	-30C ~+70C			
IP rating	IP 66 waterproof & dustproof			
Colour temperature:k	2700k-6500k			
Certificate	CE/RoHS/EMC/FCC			
Application	garden/courtyard/road/parking lot/outdoor,etc.			

3. Our Project Model Solar Street light



Model : SH-S/SLS-160W

item	discription
Solar	Monocrystalline, Heavy dust resistant
Fixture	LED, 100W, high purity lenses
opration	It has an automatic sensor, Depending on the nature of the atmosphere
power	100W
battery	Integrated Lithium Battery, 48 amp/h, 24 volt,3000 cycles
Battery Charging Time	7h
The time required to save charging	4 days straight
IP	66
Fixture manufacture properties	Resistant to bad weather conditions, such as dust, high humidity, temperature of 55 degrees Celsius, and wind speeds of 220 km per hour.
industry technology	smart
Lumens	16000 lm
Color Temperature (K)	4000 k
Warranty on fixture	5 years for fixture, sensor,battery and 10 years for solar panel

4. Product Advantages And Parts



HIGH LIGHT OF PRODCUT



Fix easilly with screws



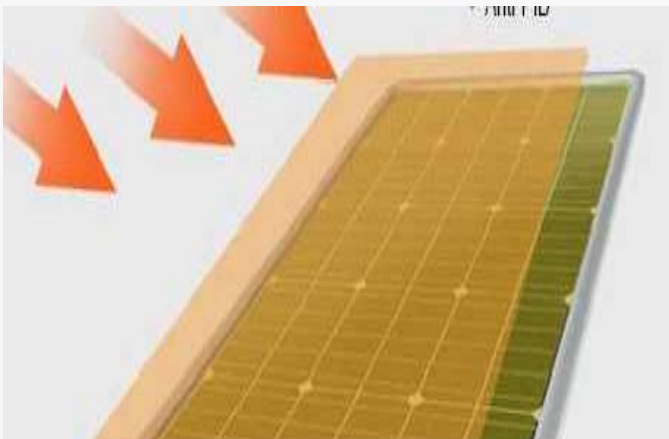
perfect seal

Whole Shape Die-casting Aluminum Body

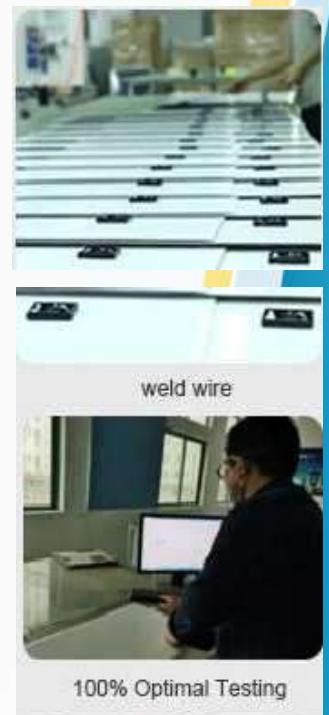
Body

Diecasting aluminum body, whole shap technology, better heat dissipation, easy to replace spare parts, low maintenance cost.

**Self-produced solar panel
100% strict quality control**



- > Conversion Rate up to 22%**
- > Power error range less than 3%**
- > Service life is as long as 25 years**



MODEL : PT-4-160



body 1195*505*83.5mm

panel size 1160 *475 * 3.5 mm

High

Efficient

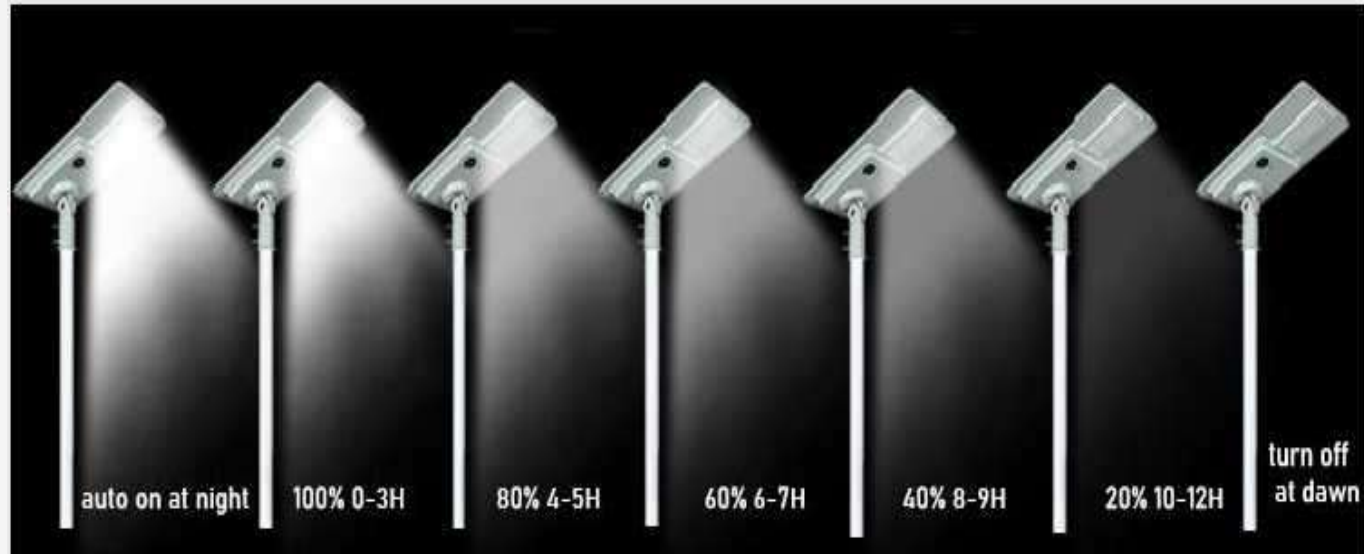
Solar Panel

A-grade monocrystalline silicon solar panel, conversion efficiency can reach 22%, to reach the max conversion from light to electricity.

Lithium Battery PT-24V-48A

Model	Specifications
PT-24V- 48A	Lithium Battery
Size	272*218*45mm
Weight	5.35KG
Rated Battery Voltage	24V
Rated Battery Capacity	48Ah
Max. constant charge current	15A
Max. constant discharge current	10A
Packing	Epoxy Board + PVC Film
Cycle Life	3000 times
Lifespan	8 years
Others	24V 48Ah 24V 54Ah

Mode : MPPT1075-DCLi



**MPPT
Controller**

6-8 periods dimmable

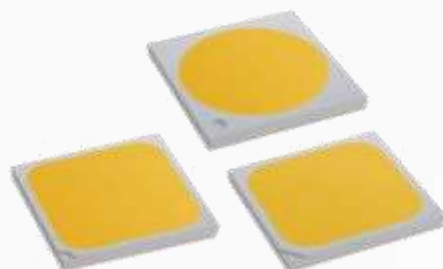
MPPT controller optional, Strong smart power and battery capacity detection, the light runs on more than 4 rainy days.

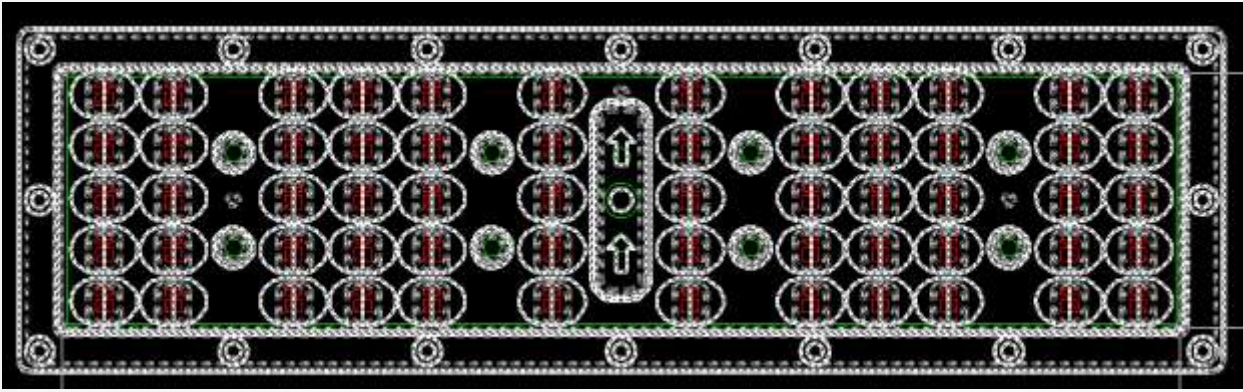
luXeon Xr-5050 He

LUXEON 5050 LED

CRI (Ra>): 80

184lm/w>4000 k





Product combined with Geometric Surface Design, High light efficiency;

● **75 / 140 beam angle. With high light transformer 92%**

On the basic character of 3030 series light, show the application of the Combination of optical and construction.



Die casting aluminum installation holder.

90-180° adjustable, sturdy and durable,

to make the solar panel orientation and

light angle better.

5. Certified Product

CERTIFICATE



No. 3K230303.SSL0070

Test Report / Technical Construction File no. HTT202206275ER

Certificate's Holder: SHINING STAR LIGHTING LLC - CHINA SHINING STAR
16w115 Hillside Lane Burr Ridge, IL 60527 Chicago USA.
Build 8, No.1098, Chuansha Road, Pudong Shanghai China

Certification ECM Mark



Product: Security Cable
Trademark: SHINING STAR



Model(s): *(see the following annex)*

Verification to: Standard:
EN 55032:2015+A1:2020, EN IEC 61000-3-2:2019,
EN 61000-3-3:2013+A1:2019, EN 55035:2017+A11:2020
related to CE Directive(s):
2014/30/EU (Electromagnetic Compatibility)

This document has been issued in accordance with the European Commission's note of 14 September 2022 ref. Ares (2022) 6342894 concerning voluntary certifications with a non-notified procedure.

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directives. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. The above conformity mark can be affixed to the technical documentation in accordance with the ECM regulation on its issue and use, published on the website www.entecerma.it

Issuance date: 03 March 2023

Expiry date: 02 March 2028

For online check:



Approver
Ente Certificazione Macchine
Legal Representative
Luca Bedonni



Ente Certificazione Macchine Srl

Via Ca' Bella, 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 📠 +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME**CB TEST CERTIFICATE**

Product	Solar Street Light
Name and address of the applicant	CHINA SHINING STAR IMPORT AND EXPORT CO.,LTD 416 Rm, No.6, Lane No. 199, Jingang Road Jinqiao free trade zone, Shanghai, China
Name and address of the manufacturer	CHINA SHINING STAR IMPORT AND EXPORT CO.,LTD 416 Rm, No.6, Lane No. 199, Jingang Road Jinqiao free trade zone, Shanghai, China
Name and address of the factory	CHINA SHINING STAR IMPORT AND EXPORT CO.,LTD 416 Rm, No.6, Lane No. 199, Jingang Road Jinqiao free trade zone, Shanghai, China
Ratings and principal characteristics	Class III; IP66; ts:45°C; For other ratings, see test report.
Trademark (if any)	SHINING STAR
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	SH-S/SLS-3W; SH-S/SLS-5W; SH-S/SLS-6W; SH-S/SLS-8W; SH-S/SLS-15W; SH-S/SLS-20W; SH-S/SLS-30W; SH-S/SLS-40W; SH-S/SLS-50W; SH-S/SLS-60W
Additional information (if necessary may also be reported on page 2)	-see also test report ref. no. 50266453 001.
A sample of the product was tested and found to be in conformity with	IEC 60598-2-3:2002+A1 IEC 60598-1:2014+A1 for national deviations see test report.
As shown in the Test Report Ref. No. which forms part of this Certificate	50266453 001

This CB Test Certificate is issued by the National Certification Body

RoHS ATTESTATION



No. 3K230227.SSLOW39

Test Report / Technical Construction File no. HIT202206276CH

Attestation's Holder: SHINING STAR LIGHTING LLC - CHINA SHINING STAR
16w115 Hillside Lane Burr Ridge, IL 60527 Chicago USA.
Build B, No.109B, Chuansha Road, Pudong Shanghai China

Product: Lan Cables - Coaxial Cable - Security Cable

Trademark: SHINING STAR



Model(s): (see the following annex)

Verification to: Standard:
IEC 62321-4:2013+A1:2017, IEC 62321-5:2013,
IEC 62321-6:2015, IEC 62321-7-1:2015,
IEC 62321-7-2:2017, IEC 62321-8:2017

Related to Directive(s):
2011/65/EU amended by 2015/863/EU Restriction of the use of
certain hazardous substances (RoHS)

This document has been issued in accordance with the European Commission's note of 14 September 2022 ref. Ares (2022) 6342894 concerning voluntary certifications with a non-notified procedure as it does not fall within the scope of Ente Certificazione Macchine notification under harmonised Union legislation.

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directives. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. The above conformity mark can be affixed to the technical documentation in accordance with the ECM regulation on its issue and use, published on the website www.entecerma.it

Issuance date: 27 February 2023

Expiry date: 26 February 2028

For online check:



Approver
ECM Service Director
Luca Bedonni





SHENZHEN HTT TECHNOLOGY CO., LTD.

HOTLINE: 400-6655-351

WWW.HTTPRC.COM

Certificate of Compliance

Certificate No. : HTT170101033R
Applicant : CHINA SHINING STAR IMPORT AND EXPORT COMPANY
Applicant Address : 416 Room, No.6 Lane 199, Jingang road, Free Trade Zone Shanghai
China
Manufacturer : CHINA SHINING STAR IMPORT AND EXPORT COMPANY
Manufacturer Address : 2nd Floor East HuaSheng Road, Guzhen, Zhongshan City
Product : LED Street Light
Model No. : SH-S/ST-IP65-20W, SH-S/ST-IP65-30W, SH-S/ST-IP65-40W,
SH-S/ST-IP65-50W, SH-S/ST-IP65-60W, SH-S/ST-IP65-70W,
SH-S/ST-IP65-80W, SH-S/ST-IP65-90W, SH-S/ST-IP65-100W,
SH-S/ST-IP65-120W, SH-S/ST-IP65-150W, SH-S/ST-IP65-180W,
SH-S/ST-IP65-200W, SH-S/ST-IP65-220W
Trademark : 

This is to certify that, on the basis of the tests undertaken as per Report No.:
HTT170101033RR, the submitted sample of the above item complies with:

IEC62321-4:2013
IEC62321-5:2013
IEC62321-6:2015
IEC62321-7:2015

And fulfills testing requirement of the RoHS directive 2011/65/EU.

RoHS



Kevin
Kevin/Senior Manager

Date of Issue: Jan.09, 2017

TEL: 0755-23595200 FAX: 0755-23595201
7F, A BUILDING, SMART VALLEY SCIENCE AND TECHNOLOGY INNOVATION PARK,
NIXIANG, BAOAN DISTRICT, SHENZHEN, GUANGDONG, CHINA



SHENZHEN HTT TECHNOLOGY CO.,LTD.

HOTLINE: 400-6655-351

WWW.HTTPRC.COM

Certificate of Compliance

Certificate No. : HTT170101033L
 Applicant : CHINA SHINING STAR IMPORT AND EXPORT COMPANY
 Applicant Address : 416 Room, No.6 Lane 199, Jingang road, Free Trade Zone Shanghai
 China
 Manufacturer : CHINA SHINING STAR IMPORT AND EXPORT COMPANY
 Manufacturer Address : 2nd Floor East HuaSheng Road, Guzhen, Zhongshan City
 Product : LED Street Light
 Model No. : SH-S/ST-IP65-20W, SH-S/ST-IP65-30W, SH-S/ST-IP65-40W,
 SH-S/ST-IP65-50W, SH-S/ST-IP65-60W, SH-S/ST-IP65-70W,
 SH-S/ST-IP65-80W, SH-S/ST-IP65-90W, SH-S/ST-IP65-100W,
 SH-S/ST-IP65-120W, SH-S/ST-IP65-150W, SH-S/ST-IP65-180W,
 SH-S/ST-IP65-200W, SH-S/ST-IP65-220W
 Trademark :

The above products have been tested by us with listed standards and found in compliance with the council LVD (Low Voltage Directive) 2014/35/EU. It is possible to use CE marking to demonstrate the compliance with this Low Voltage Directive.

Test standards:	Report(s) Number	Issued By	Issued Date
EN 60598-1:2008+A11:2009	HTT170101033LR	HTT	Jan.09,2017
EN 60598-2-3:2003			
EN 62471:2008			

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.



Authorized Signer:



Kevin/Senior Manager

Date: Jan.09,2017



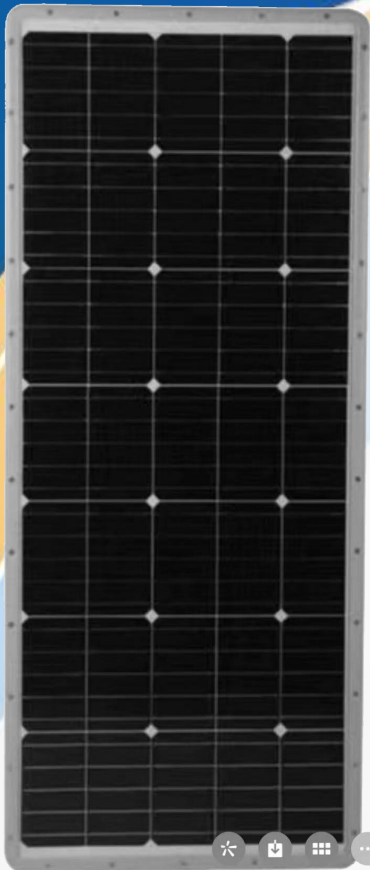
SHINING STAR



PUTIAN Photoelectric Technology



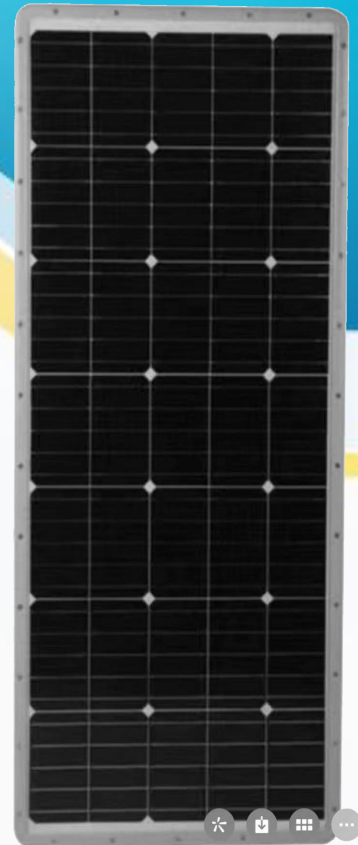
MONOCRYSTALLINE SOLAR PANEL MODULE



MODEL : PT-4-160

160 W 36 V

 **SHINING
STAR**





Catalog Content

1. Company Profile

2. Our Factory

3. Product Advantages

4. Our Project Solar Panel Details

5. Certified Product



1. Company Profile

PUTIAN Photoelectric Technology Co., Ltd., established in June 2015, is located in Guzhen, the lighting capital of China.

The factory covers an area of 3,500 square meters. It is a technology enterprise integrating the development, production and sales of solar photovoltaic and solar lamps. The main products produced by the company are: solar battery , solar polycrystalline panels MONOCRYSTALLINE MODULE, single crystal panels, private model solar street lights, private model solar panels Garden lights, photovoltaic power generation systems, solar advertising light boxes, solar commonly used LED light sources and lighting kits and other products





2. Our Factory



**Solar Panel
Manufacturing Machine**





3. Product Advantages

PT-4-160

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- 👉 High module conversion efficiency up to 18.15% by using high efficient solar cells and advanced manufacturing technology.
- 👉 Low degradation and excellent performance under high temperature and low light conditions.
- 👉 Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- 👉 High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- 👉 Potential induced degradation (PID) resistance.
- 👉 Positive power tolerance of 0 ~ +3 %.

CERTIFICATIONS

- 👉 IEC61215, IEC61730, IEC62716, IEC61701, CE, ISO9001:2008: Quality management system
- 👉 ISO14001:2004: Environmental management system

SPECIAL WARRANTY

- 👉 12 years limited product warranty.
- 👉 Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



Passionately committed to delivering innovative energy solution



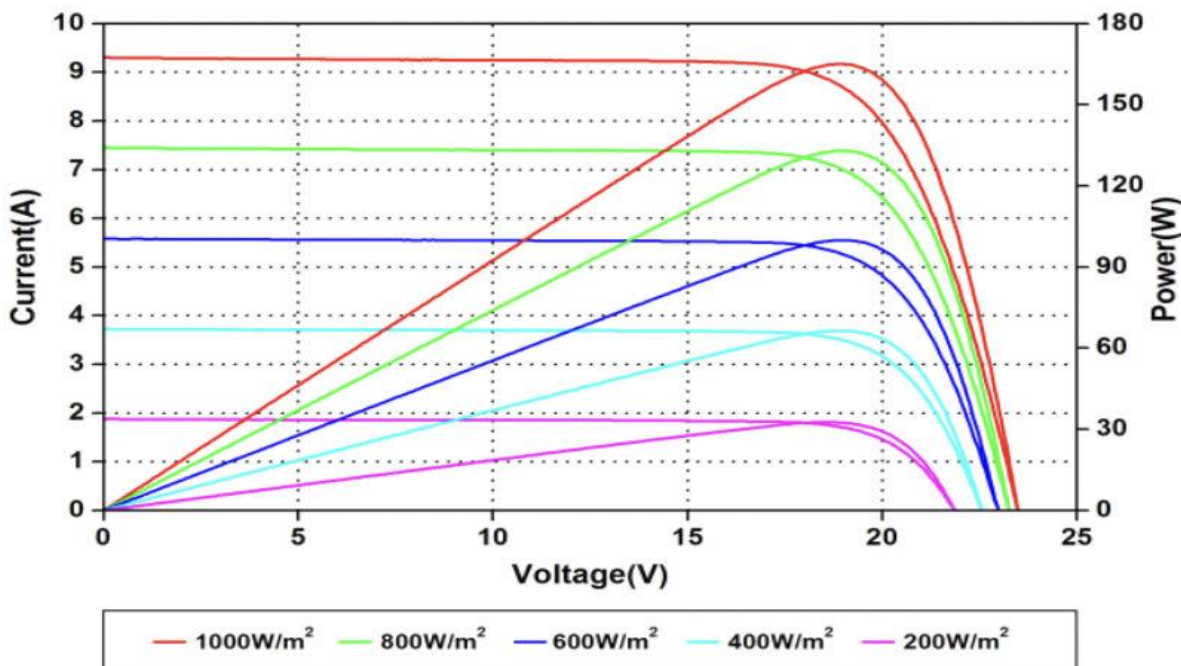
4. Our Project Solar Panel Details

ELECTRICAL CHARACTERISTICS AT STC

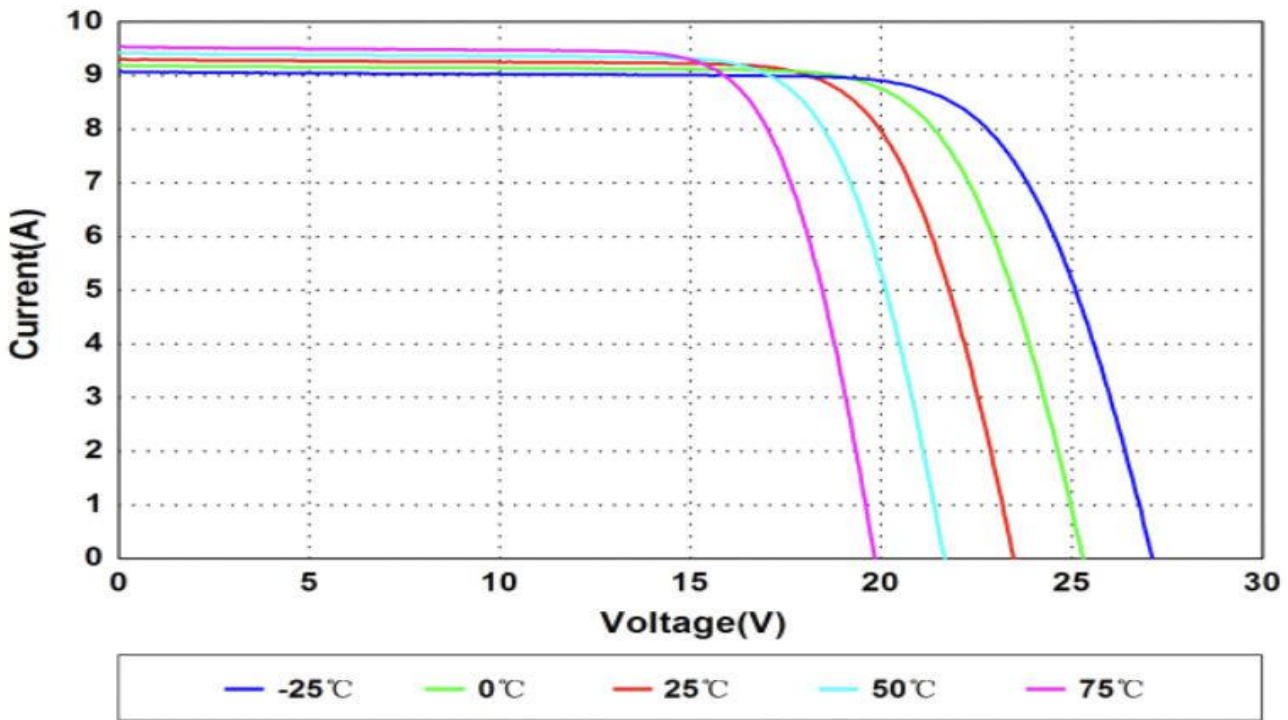
Nominal Power (P_{max})	155W	160W	165W	170W	175W	180W
Open Circuit Voltage (VOC)	36.2V	36.2V	36.2V	36.2V	36.2V	36.2V
Short Circuit Current (Isc)	14.48A	14.48A	14.55A	14.55A	14.85A	15.10A
Voltage at Nominal Power (Vmp)	36.2V	36.2V	36.2V	36.2V	36.2V	36.2V
Current at Nominal Power (Imp)	14.48A	14.48A	14.55A	14.55A	14.85A	15.10A
Module Efficiency (%)	16.63	16.74	16.84	17.24	17.85	18.85
Operating Temperature	-40°C to +85°C					
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)					
Maximum Series Fuse Rating	15A					

ENGINEERING DRAWINGS

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures





5. Certified Product

Verification of compliance



Verification of Compliance

Verification No.: TMC210906102-C
Name and address of Applicant: Zhongshan Putian Solar Energy Equipment Co. LTD
3rd Floor, Building 7, Tongyi Science Innovation Park, Guzhen Town,
Zhongshan City, Guangdong Province
Name and address of Manufacturer: Zhongshan Putian Solar Energy Equipment Co. LTD
3rd Floor, Building 7, Tongyi Science Innovation Park, Guzhen Town,
Zhongshan City, Guangdong Province
Product name: Solar integrated street lamp
Product model(s): PT~F80, PT~F20, PT~F40, PT~F60, PT~F120
Product trademark: 语天

This verification confirms that the product meets the requirements of the following standard.
The conformity was demonstrated based on following standard(s) listed by European Commission as harmonized with Directive RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU

IEC 62321-1:2013	IEC 62321-3-1:2013
IEC 62321-4:2013/AMD1:2017	IEC 62321-5:2013
IEC 62321-6:2015	IEC 62321-7-1:2015
IEC 62321-7-2:2017	IEC 62321-8:2017

The verification has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report(s) No.: TMC210906102-C
Test conducted by: TMC Testing Services (Shenzhen) Co., Ltd.
Verification issue date: September 11, 2021

Notes:

This verification refers to the above mentioned product and its conformity in regards of above mentioned standard(s) was proven on test sample.

This verification does not imply meeting all essential requirements, assessment of the series-production or any other restricted Notified Bodies conformity assessment procedure appropriate for the product.

This verification holder shall use this verification in connection to verification of conformity and technical data relevant for the product the verification was issued.

TMC Testing Services (Shenzhen) Co., Ltd.

t:86-755-86642861 cert@tmc-lab.com www.tmc-lab.com

1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen, China



TMC



深圳市环通认证中心有限公司 质量管理体系认证证书

编号: 02422Q32280058R0S

兹证明

中山市普天太阳能设备有限公司

(统一社会信用代码: 91442000MA510N0C8G)

(地址: 中山市古镇镇古四村同益工业园区厂房7栋三层之二(住所申报) 邮编: 528421)
质量管理体系符合标准:

GB/T19001-2016/ISO9001:2015

质量管理体系覆盖范围:

***太阳能 LED 路灯生产及销售服务 (36V 以下) ***

发证日期: 2022-01-13

证书有效期至: 2025-01-12

(本证书有效期内每年需进行监督审核, 证书是否继续有效以是否加贴监督合格标志为准。)

机构印章:

签发(主任):



第一次监督
合格标志加贴处

第二次监督
合格标志加贴处

第三次监督
合格标志加贴处



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C024-M

证书查询方式: 可通过深圳市环通认证中心有限公司官网 (www.ucccert.com), 或国家认证认可监督管理委员会官网 (www.cnca.gov.cn) 查询
认证机构联系电话: (+86 755)83355888 地址: 深圳市福田区侨香路裕和大厦六楼
The most recent information and status of the certificate are available from the UCC website (www.ucccert.com) or CNCA website (www.cnca.gov.cn)
UCC telephone number: (+86 755)83355888 Address: 6/F, Yuhe Building, Qiaoxiang Road, Shenzhen, P.R. China





SHENZHEN UNIVERSAL CERTIFICATION CENTRE CO., LTD.
QUALITY MANAGEMENT SYSTEM CERTIFICATE

No.: 02422Q32280058R0S

This is to certify that the quality management system of
PUTIAN ENERGY TECHNOLOGY(GUANGDONG) CO., LTD
(UNIFIED SOCIAL CREDIT CODE: 91442000MA510N0C8G)
(ADD: 3FLR, 7BLOCK, TONGYI INDUSTRIAL AREA, GUZHEN TOWN, ZHONGSHAN CITY,P.R.CHINA ZIP: 528421)
is in conformity with:

GB/T19001-2016/ISO9001:2015

This system is valid to:

***MANUFACTURING SERVICE AND SALE OF SOLAR LED STREET LIGHT
(UNDER 36V)***

Issue date: 01-13-2022

This Certificate is validity until: 01-12-2025

(The surveillance audits shall be performed in a yearly manner during the validation. The continual effectiveness of the certificate shall be marked by the surveillance qualification logo as pasted below.)

Organization stamp:

Representative of the centre (Director):



1st surveillance logo

2nd surveillance logo

3rd surveillance logo



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C024-M

证书查询方式: 可通过深圳市环境认证中心有限公司官网 (www.uccert.com), 或国家认证认可监督管理委员会官网 (www.cnca.gov.cn) 查询
认证机构联系电话: (+86 755)83355888 地址: 深圳市福田区侨香路裕和大厦六楼
The most recent information and status of the certificate are available from the UCC website(www.uccert.com) or CNCA website(www.cnca.gov.cn)
UCC telephone number: (+86 755)83355888 Address: 6/F,Yuhe Building,Qiaoxiang Road,Shenzhen,P.R.China



**SHINING
STAR**



TMC Testing Services (Shenzhen) Co., Ltd

Report No.: TMC210906104-S

Test Report

On Behalf of

Zhongshan Putian Solar Energy Equipment Co. LTD

Solar integrated street lamp

Model : PT~F80,PT~F20,PT~F40,PT~F60,PT~F120

Prepared for : Zhongshan Putian Solar Energy Equipment Co. LTD
3rd Floor, Building 7, Tongyi Science Innovation Park, Guzhen
Town, Zhongshan City, Guangdong Province

Prepared By : TMC Testing Services (Shenzhen) Co., Ltd.
1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park,
No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen,
China
Tel: +86-755- 86642861
Web: www.tmc-lab.com
E-mail : Cert@tmc-lab.com

TMC Testing Services(Shenzhen) Co., Ltd.

Approved by name, function, signature : Bart Deng



TMC Testing Services (Shenzhen) Co., Ltd.
Testing & Certification Services

1/F., Block A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan
Road, Shilong Community, Shiyan Street, Baoan District,
Shenzhen, China
t (86)755 86642861 Cert@tmc-lab.com www.tmc-lab.com

Page 1 of 5



MODEL : PT-4 - 1 6 0
160 W 36 V

MODULETYPE : MONOCRYSTALLINE MODULE

Maximum Power(Pmax)	160W
Power Tolerance	3%
Maximum Power Current (Imp)	4.35A
Maximum Power Voltage(Vmp)	36.8V
Short Circuit Current(Isc)	4.79A
Open Circuit Current(Voc)	45.6V
Maximum Series Fuse Rating	10A
Dimensions(L*W*H)	1160*475*3.5MM
Maximum System Voltage (VDC):1000	
Wind Resistance (Pa):2400	
All technical data at standard test condition	
AM=1.5	E=1000W/M2 Tc=25°C



WARNING! ELECTRICAL HAZARD

This unit produces electrical power when exposed to light.
Cover glass before opening terminal junction box.

**PUTIAN Photoelectric
Technology**

MADE IN CHINA

Thank you!

ΤΡΑΝΚ ΛΟΝΙ





Super Energy Co., Ltd



Super Energy Co.,Ltd.



SAMSUNG cell

A- grade INR18650 -29E

Battery Model :PT-24V- 48A

24 V 48 AH



Catalog Content

1. Company Profile

2. Product Parameters

3. Product Advantages

4. Our Project Battery Details





1. Company Profile

Super Energy Co.,Ltd is a field of new energy sources, lithium ion battery research and development production and sales of high-tech enterprises. Located in Tangxia Town, Dongguan City, Guangdong Province, China.

Super Energy is established in 2005, the factory covers more than 2000 square meter with 10 production lines.A year

production capacity of a hundred million.

We specialize in energy storage power, portable power source station and various specifications of lithium batteries for all parts of the world.

The Lithium batteries can be widely used in household energy storage, outdoor mobile power supply, energy storage base stations, solar energy storage projects, UPS power supply, emergency lights, electric tools, electric bicycles and other fields.





2. Product Parameters

Size	Capacity	Max Output/Day	Delivery time (days)	Temperature Range	Cycle Life
18650	2900mAh	100k	30	-20~65°C	3000

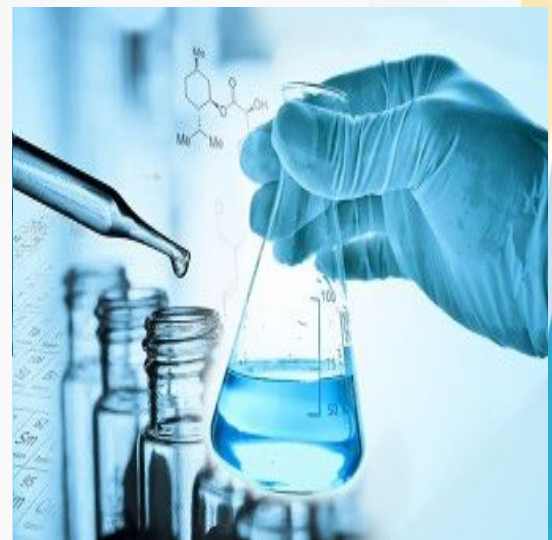
18650 Battery Specifications		
Items	Spec	Remark
Nominal capacity	2900mAh	0.2 C5ADischarge
Standard voltage	22-24V	
Discharge termination voltage	22.2-24V	0.2 C5ADischarge
Charging limit voltage	25.6±0.03V	0°C ~ 60°C
Standard charging current	0.2 C8A	0°C ~ 60°C
Standard discharge current	0.2 C8A	-10°C ~ +60°C
Fast charging current	0.5C8A	0°C ~ 60°C
Fast discharge current	0.5C8A	-10°C ~ +60°C
Discharge current	3C8A	Termination voltage 19.0V
Maximum pulse discharge current (instantaneous ms)	5C8A	Instantaneous ms
Internal resistance	≤25mΩ	AC 1kHz Under conditions
Weight	140g	±1g
Battery storage temperature range	≤1Month	-20°C ~ 45°C
	≤3 Months	-20°C ~ 35°C
	≤12 Months	-20°C ~ 25°C



3. Product Advantages

our strategic advantages:

- The R & D center can test various aspects of battery materials and auxiliary materials, such as metal hardness, coating thickness, specific surface area of powders, particle size distribution, tap density, metal content, and the resistance of separators and foils. Pull and puncture, diaphragm air permeability, heat shrinkage, micro-water content, melting point, powder resistance, etc .;
- Independent development capability of high-capacity batteries;
- Leading high-capacity battery: AAJ2700; AAAJ1100; reliable safety performance, passed IEC62133 test and obtained CB certification;
- High and low temperature battery, -20 degrees-+65 degrees, can be used in harsh environments;
- High rate battery, up to 30C charge and discharge performance requirements;
- High degree of automation, leading domestic technology;
- High safety 32700 cylindrical lithium iron phosphate battery with 3C continuous charge and discharge, 3000 cycles performance.





4. Our Project Battery Details

Model	Specifications
PT-24V- 48A	Lithium Battery
Size	272*218*45mm
Weight	5.35KG
Rated Battery Voltage	24V
Rated Battery Capacity	48Ah
Max. constant charge current	15A
Max. constant discharge current	10A
Packing	Epoxy Board + PVC Film
Cycle Life	3000 times
Lifespan	8 years
Others	24V 48Ah 24V 54Ah



Super Energy Co., Ltd



Super Energy Co.,Ltd.





Super Energy Co.,Ltd.

Add: Building 6, No.10, Keyuan 4th
Road, Tangxia Town, Donguan
City, Guangdong Province, China

<https://catl.en.alibaba.com>



Lumiax

Lumiax

Qingdao Skywise Technology Co.,Ltd

MPPT Solar charge controlle

Model

MPPT1075-DCLi

MPPT1075-DCLi
MPPT Solar charge
controller



Lumiax

MPPT1075-DCLi

Catalog Content

1. Company Profile

2. Product Parameters

3. Product Advantages

4. Controller Test

5. Certified Product





1. Company Profile



- Lumiax was established in year 2007 and is registered trademark of Qingdao Skywise Technology Co. Ltd.
- We are an ISO9001 and ISO14001 certified Company; We are one of the Leading innovators of solar and street lighting power solutions since year 2008.
- Lumiax develops and produces a full range of MPPT controllers and matching accessories. Lumiax can also Maximize battery life: Your solar charging system is optimally charged in fixed or mobile application preventing “dead battery” situations where deployment is at a remote location.



MPPT1075-DCLi



2. Product Parameters

	Item	MPPT1075-DCLi	
Battery Parameters	System Voltage	12V/24V automatical recognition	
	Max Charging Current	10A	
	Max volt on Bat. Terminal	35V	
	Battery Type	Liquid, Gel, AGM and Lithium (Programmable, default: Lithium)	
	Liquid, Gel, AGM	MPPT Charging Voltage	<14.5/29.0V@25°C
		Boost Voltage	14.5/29.0V @25°C
		Equalization Voltage	14.8/29.6V @25°C (Liquid, AGM)
		Float Voltage	13.7/27.4V @25°C
		Low Volt. Disconnect	10.8~11.8V/21.6~23.6V (Programmable)
		Reconnect Voltage	11.4~12.8V/22.8~25.6V (Programmable)
		Overcharge Protect	15.5/31.0V
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)	
	Lithium	Charging voltage target	10.0~32.0V (Programmable, default: 12.6V)
		Charging voltage recovery	9.2~31.8V (Programmable, default: 12.4V)
		Low voltage disconnect	9.0~30.0V (Programmable, default: 9.0V)
Low voltage reconnect		9.6~31.0V (Programmable, default: 9.8V)	
0°C Charging protection		Yes, Slow, No (Programmable)	
Panel Parameters	Max volt on PV terminal *1	55V	
	Max input power	130/260W	
	Dusk/Dawn detect volt.	3.0~20.0V (Programmable)	
	Day/Night delay time	0~30min (Programmable)	
	MPPT tracking range	(Battery Voltage +1.0V)~Voc*0.9 *2	
Load Parameters	Output Power	10~90W/20~180W	
	Output Voltage	20~55V/30~55V	
	Current setting range	0.15~6.0A (Programmable)	
	Min current	100mA (Dimming)	
	Current precision	±2%	
	Dimming	0~100% (Programmable)	
	Voltage of start dimming	11.8~12.5V/23.6~25.0V (Gel, AGM and Liquid); 10.0~32.0V (Lithium)	
	Dimming percentage	1~20% (Programmable)	
System Parameters	Max tracking efficiency	>99.9%	
	Max charge conversion	97.5%	
	Max LED driver efficiency	96.5%	
	Communication mode	Infrared/2.4G/IOT	
	Induction mode	Infrared Human Sensing/Microwave Sensing	
	Self consumption	6~25mA	
	Dimensions	85.8*145*30mm	
	Weight	550g	
	Ambient temperature	-35~+60°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP67	
Max Altitude	4000m		



MPPT1075-DCLi



7.Parameters setting

Num	Name	Range	Name describe	Step Length	Factory Default
1	Time1	0~6.5H+24H+D2D *1	The first working time	0.5H	4H
2	Dim1	0~100%	Dimming of the first working time	10%	100%
3	Time2	0~7.5H	The second working time	0.5H	0H
4	Dim2	0~100%	Dimming of the second working time	10%	100%
5	Time3	0~7.5H	The third working time	0.5H	0H
6	Dim3	0~100%	Dimming of the third working time	10%	100%
7	Time4	0~7.0H+T0T	The fourth working time	0.5H	0H
8	Dim4	0~100%	Dimming of the fourth working time	10%	0%
9	Time5	0~7.5H	The fifth working time	0.5H	0H
10	Dim5	0~100%	Dimming of the fifth working time	10%	100%
11	D/N Thr	3.0~20.0V	Day/Night Threshold voltage	0.5V	5V
12	D/N Dly	0~30min	Day/Night open load delay time	5min	0min
13	Load I	0.15~6.0A	Load current	0.05A	0.3A
14	Dim Auto	Yes/No/365 *2	Automatic dimming	—	Yes
15	Dim V	8.0~32.0V *3	The voltage of start dimming	0.1V	12.5V
16	Dim %	1~20%	Automatic dimming percentage	1%	10%
17	Battery	LIQ/GEL/LI *4	Battery type	—	GEL
18	CVT	8.0~32.0V	Charging voltage target	0.1V	14.6V
19	CVR	7.5~31.8V *5	Charging voltage recovery	0.1V	14.0V
20	LVD	10.8~11.8V, Soc1~Soc5 *6	Low voltage disconnect	0.1V	11.0V
21	LVR	11.4~12.8V *7	Low voltage reconnect	0.1V	12.0V
22	0°C Chg	Yes/No/Slow *8	0°C Charging Protection	—	Yes
23	DelayOff	10~150s *9	Sensing delay off time	10s	10s
24	Dim NP	0~100% *10	Dimming when no people	10%	10%



MPPT1075-DCLi



Name	Name Describe
Charge	charging
Discharge	discharging
Convert	in charge and discharge conversion
Over CD	Over current disconnect
Short CD	Short circuit disconnect
Low VD	Low voltage disconnect
Over VP	Over voltage protection
Over TD	Over temperature disconnect
Open CP	Open circuit protection
HardwareP	Hardware protection

Num	Name	Name describe	Unit
	Status:	Charge	
1	Batt V	Battery voltage	V
2	Load I	Load current	A
3	Load V	Load voltage	V
4	PV V	PV voltage	V
5	PV I	PV current *1	A
6	Energy	Total generating capacity	AH
7	OD Times	Over discharge times	Times
8	FC Times	Fully charge times	Times
9	Day1-HV	A day ago highest voltage	V
10	Day1-LV	A day ago lowest voltage	V
11	Day2-HV	Two days ago highest voltage	V
12	Day2-LV	Two days ago lowest voltage	V
13	Day3-HV	Three days ago highest voltage	V
14	Day3-LV	Three days ago lowest voltage	V



MPPT1075-DCLi



3. Product Advantages

MPPT1075-DCLi MPPT Solar charge controller



PRODUCT MODEL : MPPT 1075-DCLi

Description of Function

MPPT-DC series intelligent MPPT solar controller is programmable and especially for boost mode LED solar street light system. It includes constant current driver function. The charging efficiency is about 20% higher than the traditional PWM controller, which can drop the cost of the whole system.

- Innovative Max Power Point Tracking(MPPT) technology, tracking efficiency >99.9%
- Full digital technology, high charge conversion efficiency up to 97.5%, discharge conversion efficiency up to 96.5%
- Can output constant current (output current can be set) Can read parameters and running status
- If battery voltage is low, it can be set to dimming
- Dimming start voltage and percentage can be set Day/Night threshold can adjust automatically
- When BMS power off because of LVD, it can activate the system automatically
- External temperature sensor, automatic temperature compensation(AGM, Liquid and GEL) Four stages charge way: MPPT, boost, equalization, float
- IP67, Strong and durable aluminum case Full automatic electronic protect function

- 5 stages time and dimming can be adjusted
- AGM, Liquid, GEL and Lithium battery for selection
- 0°C Charging Protection(Lithium)

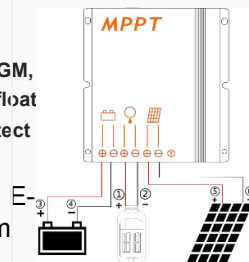
Remote Unit to configure, with LCD display *
High protections IP 67
* Auto Dimming
* Infrared Remote controller
* MPPT

Remote controller



Setting can be changed using the "S/SG-Unit" infrared remote programmer. For detailed instructions and settings, please see the S/SG-Unit programmer remote manual.

The following diagrams provide an overview of the connections and the proper order.



Not plugging is prohibited!
Please connect the inductive sensor to R series controller first!

Web: www.lumiax.com



Lumiaux

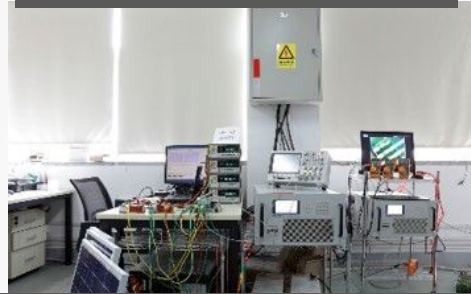
4. Controller Test

Test Capacity

Solar Simulator



MPPT Testing



MPPT

Electrostatic

Constant

High Precision- Multimeter



Electrostatic Discharge Test



Constant





5. Certified Product

Registration No.: 07621Q9204R3M-SD/001



**QUALITY MANAGEMENT SYSTEM
CERTIFICATE**

The certificate information is available on the CNCA of the official website (www.cnca.gov.cn)
This is to certify that the quality management system of
Qingdao Skywise Technology Co., Ltd
Uniform Code of Social Credit: 91370212664502812L

Reg Add: 4F North, Building 3, No. 192, Zhuzhou Road, Laoshan District, Qingdao, 266101, China
Business Add: 3F, Building 1, No. 192, Zhuzhou Road, Laoshan District, Qingdao, 266101, China

Which is in conformity with
GB/T19001-2016/ISO9001:2015
This certificate covers the following scope of
Assembly production and Sales of Solar controller

This certificate will not remain valid unless and until the certified customers accepts at least once surveillance audit annually within the validity period of the certificate. Please login into www.zrxbj.com for this certificate's validity status.

Issue Date: 10. 27. 2021 **Expiration Date:** 11. 05. 2024

Beijing ZhongRunXing Certification Co., Ltd.
No. 804 Office No. 3 Building No. 12 Tu Cheng Road East,
He ping Street Chaoyang District, Beijing

Issued by: XR Zhang



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C078-M



证书查询



TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group



Qingdao Skywise Technology Co.,
Ltd.
Mr. Zhou Yuntian

Date : 22.04.2020
Our ref. : Y.Y.D 01
Your ref. : Z.Y.T.

No.192 Zhuzhou Road
Hi-tech Park
Qingdao
266000 Shandong
P.R. China

Ref : AE Certificate of Conformity EMC

Type of Equipment : Solar Charge Controller
Model Designation : See Certificate
Certificate No. : AE 50465499 0001
Report No. : 60359266 001

Dear Mr. Zhou Yuntian,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

Ying Xie

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 898 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务(中国)有限公司

Unit 707, AVIC Bldg., No. 108,
Central Road, East 3rd Ring
Road, Chaoyang District,
Beijing, 100022, P.R.China

北京市朝阳区东三环中路乙10号
艾维克大厦707室
邮编: 100022

Tel: (8610)6566 6660
Fax: (8610)6566 6667
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com



C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility



Registration No.: AE 50465499 0001

Report No.: 60359266 001

Holder: Qingdao Skywise Technology
Co., Ltd.
No.192 Zhuzhou Road
Hi-tech Park
Qingdao
266000 Shandong
P.R. China

Product: Electronic Control Unit
(Solar Charge Controller)

Identification: Type Designation :
MPPTa35-DCb MPPTa50-DCb MPPTa75-DCb
(#a# can be 08,10,15 or 20)
(#b# can be H, I, Li, RS, LR, 32 or blank)

Serial No. : Engineering sample

Remark: Refer to test report 60359266 001 for details.

Tested acc. to: EN IEC 55015:2019
EN 61547:2009
EN 61000-6-3:2007+A1

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Date 22.04.2020

 Certification Body

Ying Xie

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. **CE**

Lumiax

Location	Laoshan	Chengyang
Factory Area	1846m ²	1600m ²
Working Staffs	14	14
Quality Staffs	4	4
RD staffs	15	0
Office staffs	28	1
Daily Capacity(pcs)	1500	4500

Qingdao Skywise Technology Co.,Ltd

NO.192,Zhuzhou Road,Qingdao
Tel: 0086-532-80776031 Fax: 0086-532-80776757
Email: solar@lumiax.com Web: www.Lumiax.com

Solar Charge Controller

Thank you!



SHINING STAR

LUMILEDS

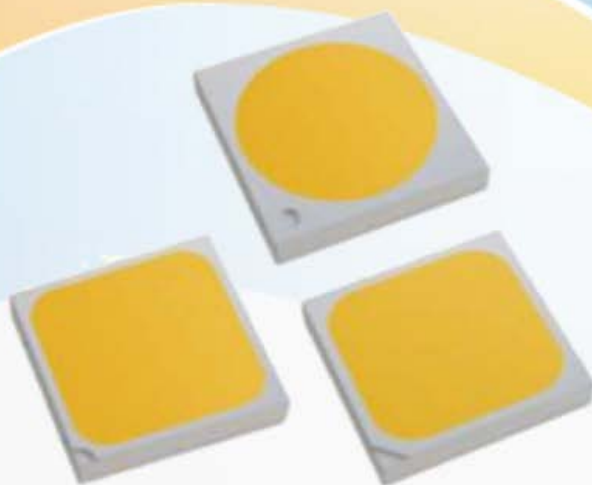


LUXEON XR-5050 HE

MODEL :

LuXeon Xr-5050 He

184 Lm/W



LUMILEDS



LUXEON XR-5050 HE

LUXEON 5050

High efficacy and lumens in a multi-die, high power package, enabling low system costs

LUXEON 5050 is a multi-die, high power package that provides high luminance from a single package to enable cost effective, single optic and directional fixture designs. LUXEON 5050 uses an industry standard 5050 surface mount package with the smallest round Light Emitting Surface (LES). LUXEON 5050 comes in 70CRI, 80CRI and 90CRI with a wide range of CCTs, and offers hot-color targeting to ensure that the LEDs are within color target at application conditions of 85°C.



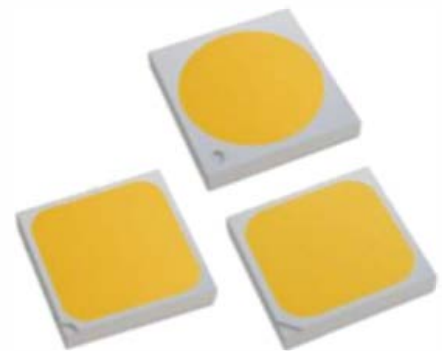


luXeon Xr-5050 He

New Form-Factor Compatible
with Off-the-Shelf Optics

LUXEON XR-5050 HE products are standard integrated modules compatible with off-the-shelf drivers, optics and heat sinks. They are constructed with

MCPCB substrates for thermal efficiency and mechanical robustness, and eliminate engineering design costs, tooling costs, and material inventory costs. This versatile building-block approach simplifies system integration and accelerates time-to-market.



Features and Benefits

Efficacy and Luminous flux of up to 184lm/W typ and 8600lm available

Available CCT/CRI combinations: 70CRI (2200K, 2700K, 3000K, 4000K, 5000K

and 5700K), 80CRI (2700K, 3000K, 4000K, 5000K and 5700K) and 90CRI (5700K)

Superior board level color control of $\leq 3\text{SDCM}$

MCPCB for efficient heat dissipation and mechanical robustness

UL 8750, ENEC, CE, UKCA compliance

5-year limited guarantee

Primary Applications

High Bay

Low Bay

Sport Lights

Outdoor Area Lights



General Product Information



Product Test Conditions

LUXEON XR-5050 HE modules are tested using a 20ms monopulse (MP) at 1050mA, case temperature Tc of 85°C.

Part Number Nomenclature

Part numbers for LUXEON XR-5050 HE follow the convention below:

L 2 2 5 - A A B B 0 C C M D D 0 1 0

A A

- designates nominal ANSI CCT (22=2200K, 27=2700K, 30=3000K, 40=4000K, 50=5000K, 57=5700K)

B B

- designates minimum CRI (70=70CRI, 80=80CRI and 90=90CRI)

C C

- designates number of emitters (24=24 emitters)

D D

- designates internal Lumileds program code

1 0

- designates internal Lumileds program code

therefore, a LUXEON XR-5050 HE 4000K 80CRI with 24 emitters, will have the following part number:

L 2 2 5 - 4 0 8 0 0 2 4 M L U 0 1 0

Lumen Maintenance

please contact your local Sales Representative or Lumileds Technical Solutions Manager for more information about the long- term performance of this product.

Environmental Compliance

lumileds LLC is committed to providing environmentally friendly products to the solid-state lighting market. LUXEON XR-5050 HE is compliant to the European Union directives on the restriction of hazardous substances in electronic equipment, namely the RoHS Directive 2011/65/EU and REACH Regulation (EC) 1907/2006. Lumileds LLC will not intentionally add the following restricted materials to its products: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).





Performance Characteristics

Product Selection Guide

Table 1 . Product performance of LUXEON XR-5050 HE at 1050mA, Tc=85°C .

nomInal cct	mInImum crI [1, 2]	lumInous FluX ^[1] (lm)		tyPIcal lumInous eFFICacy (lm/W)	enerGy eFFICency class [3]	Part numBer
		mInImum	tyPIcal			
2200K	70	6856	7272	155	E	L225-2270024MLU010
2700K	70	7618	8042	171	D	L225-2770024MLU010
3000K	70	7923	8328	177	D	L225-3070024MLU010
4000K	70	8317	8636	184	C	L225-4070024MLU010
5000K	70	8317	8636	184	C	L225-5070024MLU010
5700K	70	8121	8442	179	D	L225-5770024MLU010
2700K	80	6733	7241	154	E	L225-2780024MLU010
3000K	80	7039	7553	161	D	L225-3080024MLU010
4000K	80	7661	8025	171	D	L225-4080024MLU010
5000K	80	7661	8025	171	D	L225-5080024MLU010
5700K	80	7578	7914	168	D	L225-5780024MLU010
5700K	90	6396	6834	145	E	L225-5790024MLU010

Electrical and Thermal Characteristics

Table 2 . Electrical characteristics for LUXEON XR-5050 HE at 1050mA, Tc=85°C .

Part numBer	ForWard VoltaGe ^[1] (V _f)		
	mInImum	tyPIcal	maXImum
L225-xxxx024MLU010	42.0	44.8	45.2

Notes for Table 2:

1. Lumileds maintains a tolerance of ±0.1V on forward voltage measurements.

Board Level Color Control

Table 3 . Board Level Color Control for LUXEON XR-5050 HE .

Part numBer	color control
L225-xxxx024MLU010	3SDCM



Absolute Maximum Ratings



Table 4 . Absolute maximum ratings for LUXEON XR-5050 HE .

Parameter	maXimum Perfomance
DC Forward Current	2000mA
Peak Pulsed Forward Current (2, 3)	4000mA
Maximum Working Voltage (4)	250Vdc
ESD Sensitivity (ANSI/ESDA/JEDEC JS-001-2012)	Class 2
Operating Case Temperature at Tc point (1)	-40 to 85°C
LED Storage Temperature	-40°C to 105°C
Reverse Voltage (V _{reverse})	LUXEON LEDs are not designed to be driven in reverse bias

Notes for Table 4:

1. Proper current derating must be observed to maintain the Tc temperature below the maximum allowable Tc temperature
2. Residual periodic variations due to power conversion from alternating current (AC) to direct current (DC), also called "ripple," are acceptable if the following conditions are met:
 - The frequency of the ripple current is 100Hz or higher
 - The average current for each cycle does not exceed the maximum allowable DC forward current
 - The maximum amplitude of the ripple does not exceed the maximum peak pulsed forward current
3. At <=50% duty cycle with pulse width of 5ms.
4. Basic insulation between live parts on the LED module and mounting surface or touchable parts when mounted in a luminaire for SELV and other than SELV operations has been evaluated according to IEC 62031.

Application Information

Table 5 . Approbation for LUXEON XR-5050 HE .

Item	comPIant to
Test and Certification	UKCA E UL8750 (UL file no. E335118) ENEC
Declaration	RoHS REACH

Recommended Wire

Table 6 . Recommended Wire for LUXEON XR-5050 HE.

recommended WIRE	Insulator diameter	strIP lenGth
AWG 26-18	Maximum 2.5mm	4mm to 5mm



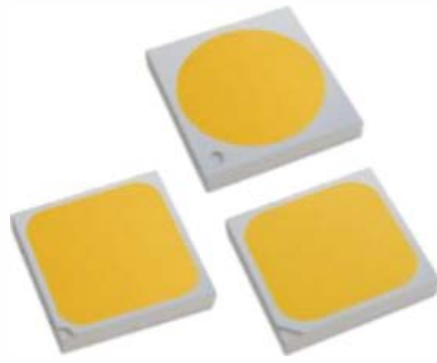


Figure 3 . Typical normalized power vs . wavelength for 90CRI LUXEON XR-5050 HE at 1050mA, Tc=25°C .

Light Output Characteristics

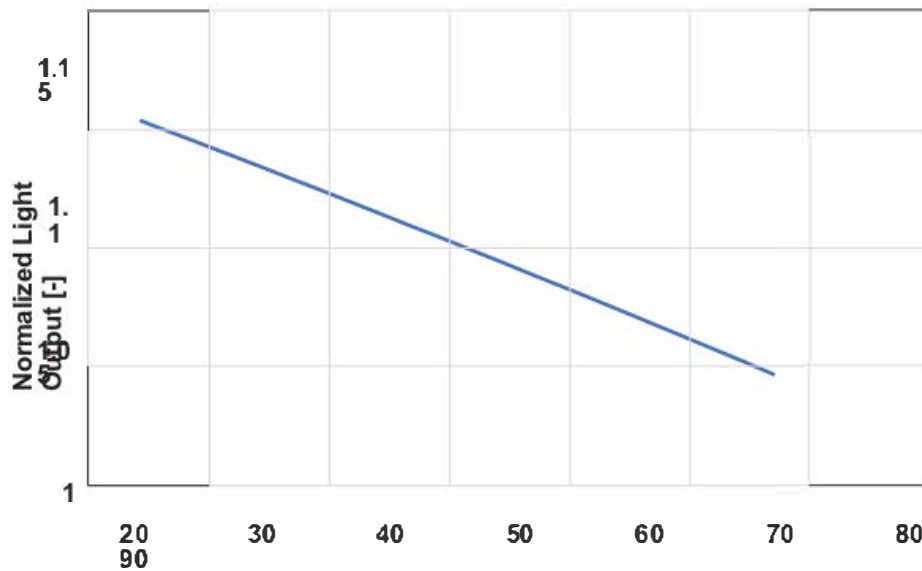


Figure 4 . Typical normalized light output vs Tc temperature for LUXEON XR-5050 HE at 1050mA .



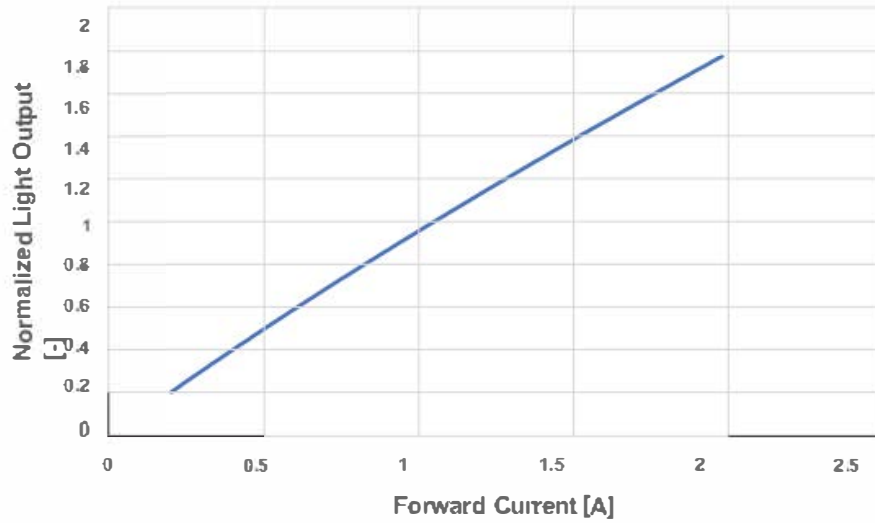


figure 5 . Typical normalized light output vs . forward current for XR-5050 HE at $T_c=85^{\circ}\text{C}$.

Efficacy Characteristics

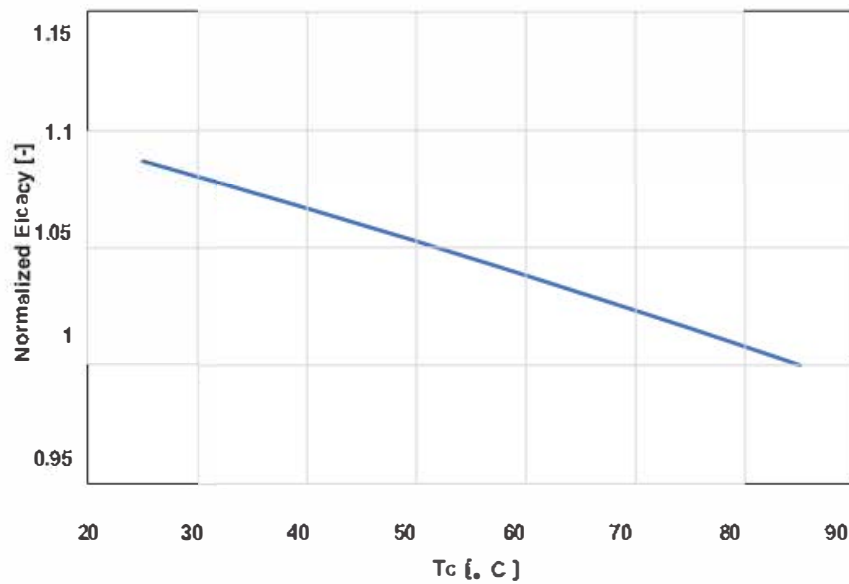


Figure 6. Typical normalized efficacy vs. T_c temperature for LUXEON XR-5050 HE at 1050mA.



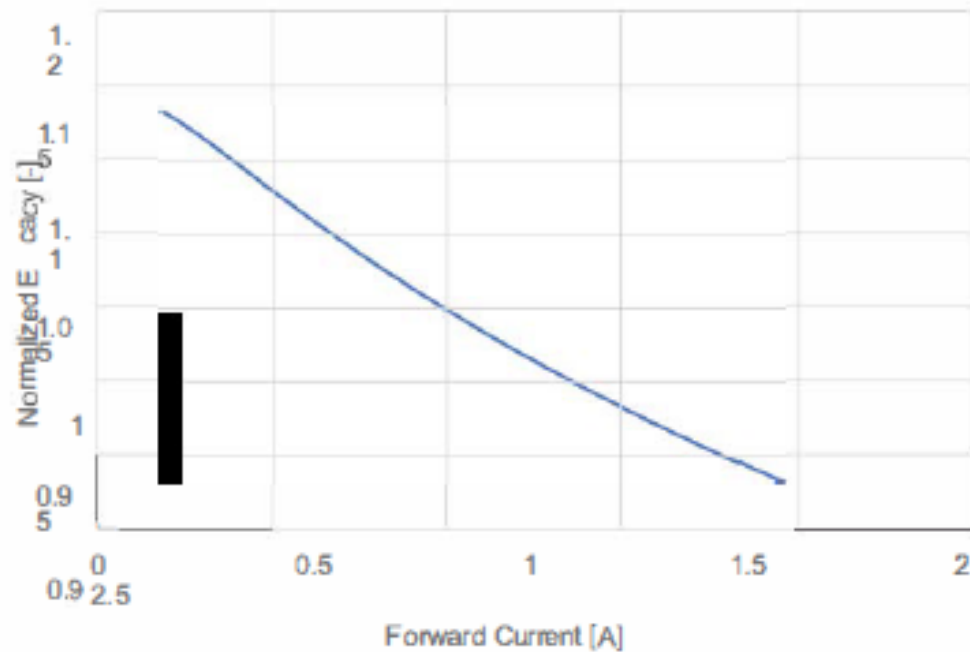


Figure 7. Typical normalized efficacy vs. forward current for LUXEON XR-5050 HE at $T_c=85^\circ\text{C}$.

Mechanical Dimensions



Figure 8 . Mechanical dimensions for LUXEON XR-5050 HE .

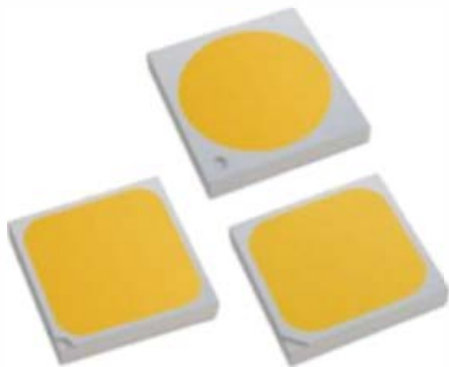
Notes for Figure 8:

- 1. Drawings are not to scale.**
- 2. All dimensions are in millimeters.**



About Lumileds

Companies developing automotive, mobile, IoT and illumination lighting applications need a partner who can collaborate with them to push the boundaries of light. With over 100 years of inventions and industry firsts, Lumileds is a global lighting solutions company that helps customers around the world deliver differentiated solutions to gain and maintain a competitive edge. As the inventor of Xenon technology, a pioneer in halogen lighting and the leader in high performance LEDs, Lumileds builds innovation, quality and reliability into its technology, products and every customer engagement. Together with its customers, Lumileds is making the world safer, better and more beautiful—with light. To learn more about our lighting solutions, visit lumileds.com.



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