Alien Warrior
Solar Flood Light Specification

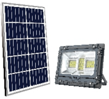
1.Product Overview

This is our patent product, aimed to provide high quality solar flood light for our customers, approved CE, RoHS,FCC,and other international certification. "Wiring free, easy to install",” Special RGB musical rhythm”, "high charging efficiency","strong endurance" and "outstanding light efficiency"is our main advantage.Luminaire equipped large capacity lithium battery, which can absorb solar energy and convert it into electric energy by solar panel.Energy stored in the battery and then supplied to the solar lamp.can be widely used in the yard,garden,park,road and other areas.

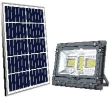
2.Product Design

The outlook of this product is designed by our company's product visual design team, is our patented product (patent number: 202130275333.6). Product design concept keep with the classic design element, mixed with “three eyes” magic design style,coming out with an unique industrial design in the market. Creating a new visual appearance for outdoor lighting products, committed to creating the market's next outlet of popular products!

1.Primary Version


60W

100W


200W

300W

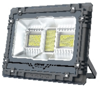
500W

800W

MJ-AW60

MJ-AW100

MJ-AW200


MJ-AW300

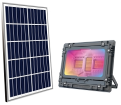
MJ-AW500

MJ-AW800

2.Premium Version(RGB with musical rhythm)

60W

100W


200W

300W

500W

800W

MJ-AW60C

MJ-AW100C

MJ-AW200C

MJ-AW300C

MJ-AW500C

MJ-AW800C

3.Product Parameters

1.Primary Version

Model	MJ-AW60	MJ-AW100	MJ-AW200	MJ-AW300	MJ-AW500	MJ-AW800
parameters						
Material	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium
Diffuser	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate
Cover	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass
Lamp Size (mm)	215.2x170.2x60	260.2x202.2x65	305.1x240.1x69	340.2x270.2x78	385.2x303.2x82	385.2x303.2x82
LED QTY (PCS)	80	136	222	318	381	381
Battery Capacity (mAh)	6000	12000	18000	24000	30000	48000
Solar Panel (mm)	5V/12W(350x235)	5V/15W(350x290)	5V/25W(430x350)	5V/35W(580x350)	5V/40W(630x350)	5V/50W(670x445)
Discharge Time	15H+	18H+	18H+	18H+	18H+	18H+
Discharge Current	3.3V/1.2A	3.3V/1.8A	3.3V/2.7A	3.3V/3.8A	3.3V/4.8A	3.3V/6A
Luminous Flux	515LM	772LM	1158LM	1630LM	2060LM	2574LM

2.Premium Version(RGB with musical rhythm)

Model	MJ-AW60C	MJ-AW100C	MJ-AW200C	MJ-AW300C	MJ-AW500C	MJ-AW800C
parameters						
Material	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium	Die-casting Aluminium
Diffuser	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate	ABS+electroplate
Cover	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass
Lamp Size (mm)	215.2x170.2x60	260.2x202.2x65	305.1x240.1x69	340.2x270.2x78	385.2x303.2x82	385.2x303.2x82
LED QTY (PCS)	24	39	50	72	95	95
Battery Capacity (mAh)	6000	12000	18000	24000	30000	48000
Solar Panel (mm)	5V/12W(350x235)	5V/15W(350x290)	5V/25W(430x350)	5V/35W(580x350)	5V/40W(630x350)	5V/50W(670x445)
Discharge Time	15H+	18H+	18H+	18H+	18H+	18H+
Discharge Current	3.3V/1.2A	3.3V/1.8A	3.3V/2.7A	3.3V/3.8A	3.3V/4.8A	3.3V/6A
Luminous Flux	/	/	/	/	/	/

Remark: Premium Version Mixed With 16million colors, which is very complicated to measure the lumen

4.Product Advantage

1)Easy assembly,convenient to change accessories

Solar panel is separated from luminaire, equipped with 4-5m cable, extension cord is available, to adapt different using environment. Easy to open the glass cover, very convenient to replace accessories.

2)Equipped with RGB musical rhythm function,for widely application

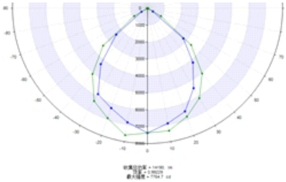
Premium version can be controlled by a smart phone via App by connecting bluetooth. Equipped with full color SMD5050, luminaire will change the color and mode automatically according to the musical rhythm, which can be widely used in the garden, park, plaza. Not only for lighting, but also bring you an impressed experience on the culture of light.

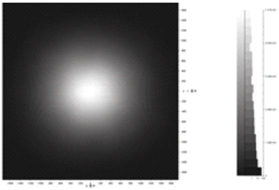
3)Intelligent extended function,compatible with other bluetooth device

Premium version also compatible with other bluetooth device like bluetooth speaker, luminaire change color and mode automatically according to the musical rhythm, could be widely used for Christmas decoration, outdoor camping, party, etc.

4)Wide beaming angle,brightness increase by 10%

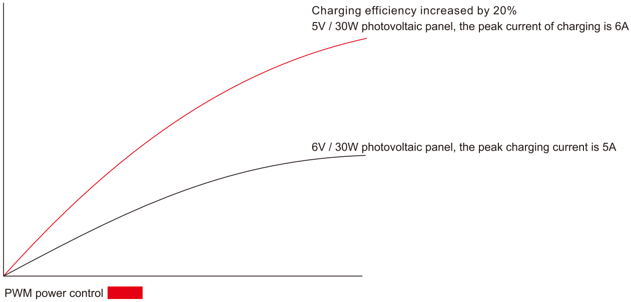
This product is designed with LED diffuser, of 110*90°beaming angle. With “three yes” section and double reflecting structure, lighting effect is much better with low light consumption. Installed at the same height, the light is more focused compared with other traditional lamps, irradiation area increase by 20% as well as the brightness increase by 10%.





5)Charging efficiency improved by 20% with P-MOS charging

Solar controller controlled by P-MOS charging through PWM, unique charge and discharge management system, with more efficient charge discharge efficiency. For example: most common 6V / 30W solar panel in the market, the peak charging current is 5A; our product uses 5V / 30W solar panel,the charging peak current is 6A, that's why the charging efficiency increase by 20%.



6)Intelligent electricity management system,super long discharge time

Committed to meet with our customer's "lighting everyday in 365 days" requirement, our company cooperate with the University of Electronic Science and technology, developed intelligent power management system, not only with higher charging efficiency, but also can identify the charging capacity of the day, so as to adjust power automatically, to achieve better lighting effect during rainy & cloudy days .

5. Lighting Mode

1.Primary Version

Power reduction in different mode	Startup time				
	0-0.5H	0.5-2H	2-4H	5H	5H to morning
Auto mode	100-80%	80-60%	60-50%	50-40%	40-20%

2.Premium Version(RGB with musical rhythm)

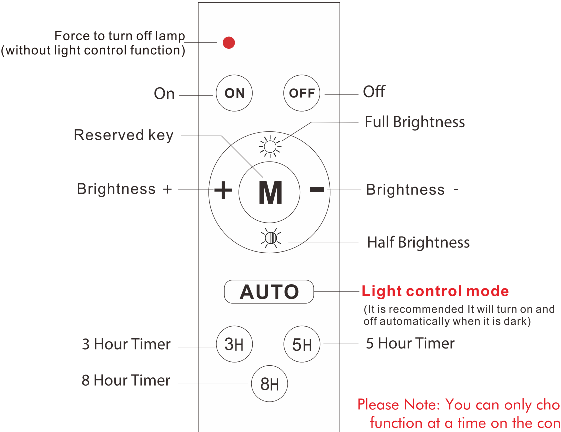
Power reduction in different mode	Startup time				
	0-0.5H	0.5-2H	2-4H	5H	5H to morning
Auto mode	100-80%	80-60%	60-50%	50-40%	40-20%

6.Instructions of remote controller

1.Primary Version

Light control mode: connect lamp and solar panel,press the [AUTO] button, then the light will turn on automatically when darkness falls,and turn off during the day. (setting with memory, only need to set up once)

Other mode on the remote controller: functions as below:

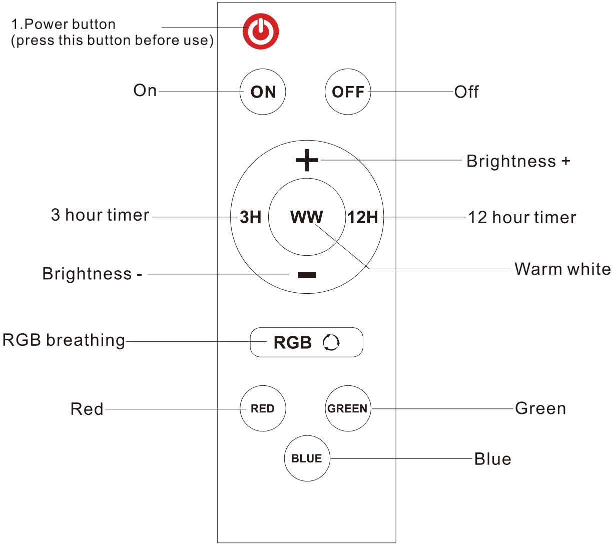


(It is recommended It will turn on and off automatically when it is dark)

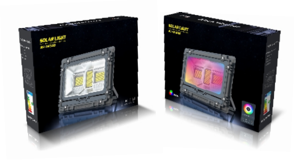
Please Note: You can only choose one function at a time on the controller.

The Timed Function starts once you press 3H/5H/8H and can not be set manually.

2.Premium Version(RGB with musical rhythm)



7.Package



Lamp Color Box

SOLAR PANEL

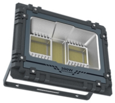
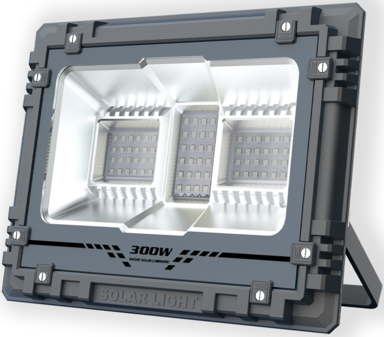
Solar Panel Color Box

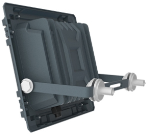
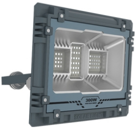
☐W
☐RGB
SOLAR LIGHT

Carton

Packing List						
Model	lamp box size cm	panel box size cm	Carton Size cm	Pcs/ctn	N.W KG	G.W KG
MJ-AW60/C	22x18x6.6	34.5x36x2.6	42x37.5x27	7	12.6	14.3
MJ-AW100/C	26.5x21.3x7.1	30x36x2.6	36.5x31.5x38	5	12.5	14.1
MJ-AW200/C	31x24.6x7.5	36x44x2.6	47.5x43x38.5	6	20.1	22.9
MJ-AW300/C	34.5x27.8x8.4	36x59x2.6	60x30x38	4	18.2	20.45
MJ-AW500/C	39x31x8.8	36x64x2.6	65x31x41	4	20.8	23.35
MJ-AW800/C	39x31x8.8	44.5x68x3	69x17x47	2	13	14.7

8.Photos from different angle

9.Application

10.Lumen Test

Spectrum Test Report

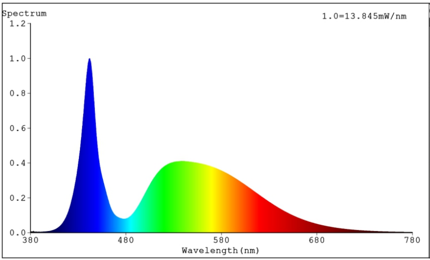
EVERFINE 远方
www.everfine.cn

Product	: 60W	Date	: 2021-10-09
Sample No.	:	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Operator	: DAMIN

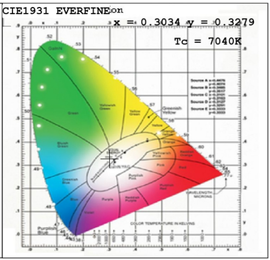
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
Scan Range	: 380nm-780nm	IP	: 45800 (70%)
		T	: 252 ms
Test Type	: Fast Test	Delicacy	: High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3034 y=0.3279/u'=0.1918 v'=0.4663(duv=7.43e-03)
CCT:Tc= 7040K Prcp WaveL: λd=489.4nm Purity=10.5%
Peak WaveL:λp=442nm Half Width:Δλp=17.7nm Ratio:R=12.3% G=84.3% B=3.4%

Render Index:Ra=69.8
R1 =68 R2 =71 R3 =74 R4 =71 R5 =71 R6 =65 R7 =76
R8 =60 R9 =0 R10=33 R11=73 R12=49 R13=67 R14=86 R15=61
LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 515.1 lm Eff. : 0.00 lm/W Fe = 1.063 W
Fmol(umol/s):4.706e-001 Fluorescence and blue light ratio:2.241 Fluorescent efficiency:0

Electrical parameters:

V = 3.347 V I = 0 A P = 0 W PF = 0

EVERFINE
杭州市滨江区滨康路669号 http://www.everfine.cn

Spectrum Test Report

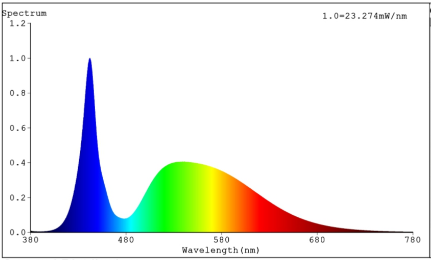
EVERFINE 远方
www.everfine.cn

Product	: 100W	Date	: 2021-10-09
Sample No.	:	Instrument	: HAAS-2000(EVERFINE)
Manufacturer	:	Operator	: DAMIN

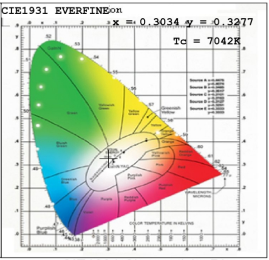
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
Scan Range	: 380nm-780nm	IP	: 52855 (81%)
		T	: 175 ms
Test Type	: Fast Test	Delicacy	: High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3034 y=0.3277/u'=0.1919 v'=0.4662(duv=7.30e-03)
CCT:Tc= 7042K Prcp WaveL: λd=489.3nm Purity=10.5%
Peak WaveL:λp=442nm Half Width:Δλp=17.3nm Ratio:R=12.3% G=84.3% B=3.4%

Render Index:Ra=69.9

R1 =69	R2 =71	R3 =74	R4 =71	R5 =72	R6 =66	R7 =76	
R8 =60	R9 =0	R10=34	R11=73	R12=49	R13=67	R14=86	R15=62

LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 772.4 lm Eff. : 0.00 lm/W Fe = 1.768 W
Fmol(umol/s):7.828e-001 Fluorescence and blue light ratio:2.236 Fluorescent efficiency:0

Electrical parameters:

V = 3.353 V I = 0 A P = 0 W PF = 0

Spectrum Test Report

EVERFINE 远方®
www.everfine.cn

Product : 200W
Sample No. :
Manufacturer :

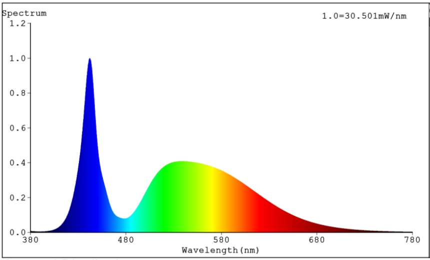
Date : 2021-10-09
Instrument : HAAS-2000(EVERFINE)
Operator : DAMIN

Test Condition

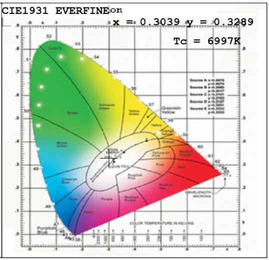
Temprature : 25.3Deg
Scan Range : 380nm-780nm
Test Type : Fast Test

RH : 65.0%
IP : 47098 (72%)
T : 118 ms
Delicacy : High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3039 y=0.3289/u'=0.1918 v'=0.4670(duv=7.67e-03)

CCT:Tc= 6997K Prcp WaveL: d=489.8nm Purity=10.3%

Peak WaveL:λp=442nm Half Width:Δλp=17.2nm Ratio:R=12.3% G=84.3% B=3.4%

Render Index:Ra=69.8

R1 =68	R2 =71	R3 =75	R4 =71	R5 =71	R6 =66	R7 =76	
R8 =60	R9 =0	R10=34	R11=73	R12=48	R13=67	R14=86	R15=61

LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 1158.5 lm Eff. : 0.00 lm/W Fe = 2.324 W

Fmol(umol/s):1.030e+000 Fluorescence and blue light ratio:2.265 Fluorescent efficiency:0

Electrical parameters:

V = 3.403 V I = 0 A P = 0 W PF = 0

EVERFINE

杭州市滨江区滨康路669号 http://www.everfine.cn

Spectrum Test Report

www.everfine.cn

Product : 300W
Sample No. :
Manufacturer :

Date : 2021-10-09
Instrument : HAAS-2000(EVERFINE)
Operator : DAMIN

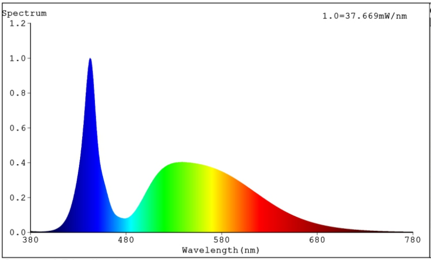
Test Condition

Temprature : 25.3Deg
Scan Range : 380nm-780nm

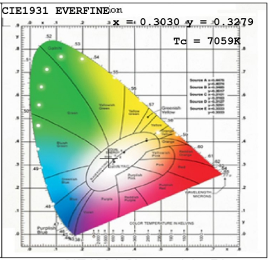
RH : 65.0%
IP : 47601 (73%)
T : 98 ms

Test Type : Fast Test
Delicacy : High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3030 y=0.3279/u'=0.1915 v'=0.4663(duv=7.62e-03)
CCT:Tc= 7059K Prcp WaveL: λd=489.4nm Purity=10.6%
Peak WaveL:λp=442nm Half Width:Δλp=17.0nm Ratio:R=12.3% G=84.3% B=3.5%

Render Index:Ra=70.0
R1 =68 R2 =71 R3 =75 R4 =72 R5 =71 R6 =66 R7 =77
R8 =60 R9 =0 R10=34 R11=73 R12=48 R13=67 R14=86 R15=62
LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 1630.6 lm Eff. : 0.00 lm/W Fe = 2.835 W
Fmol(umol/s):1.256e+000 Fluorescence and blue light ratio:2.252 Fluorescent efficiency:0

Electrical parameters:

V = 3.387 V I = 0 A P = 0 W PF = 0

EVERFINE
杭州市滨江区滨康路669号 http://www.everfine.cn

Spectrum Test Report

EVERFINE 远方
www.everfine.cn

Product : 500W
Date : 2021-10-09
Sample No. :
Instrument : HAAS-2000(EVERFINE)
Manufacturer :
Operator : DAMIN

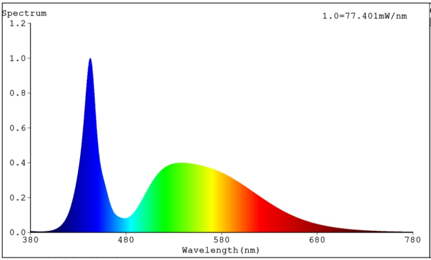
Test Condition

Temprature : 25.3Deg
RH : 65.0%
Scan Range : 380nm-780nm
IP : 49109 (75%)

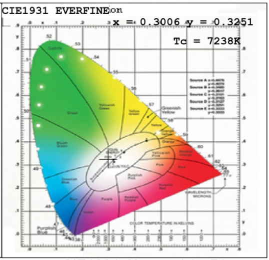
T : 50 ms

Test Type : Fast Test Delicacy : High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3006 y=0.3251/u'=0.1909 v'=0.4644(duv=7.45e-03)

CCT:Tc= 7238K Prcp WaveL: λd=488.4nm Purity=11.6%

Peak WaveL:λp=442nm Half Width:Δλp=17.3nm Ratio:R=12.1% G=84.3% B=3.5%

Render Index:Ra=70.0

R1 =69 R2 =71 R3 =75 R4 =72 R5 =72 R6 =66 R7 =77

R8 =61 R9 =0 R10=34 R11=73 R12=48 R13=68 R14=86 R15=62

LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 2060.4 lm Eff. : 0.00 lm/W Fe = 5.780 W

Fmol(umol/s):2.555e+000 Fluorescence and blue light ratio:2.195 Fluorescent efficiency:0

Electrical parameters:

V = 3.397 V I = 0 A P = 0 W PF = 0

EVERFINE

杭州市滨江区滨康路669号 http://www.everfine.cn

Spectrum Test Report

EVERFINE 远方
www.everfine.cn

Product : 800W

Sample No. :

Manufacturer :

Date : 2021-10-09

Instrument : HAAS-2000(EVERFINE)

Operator : DAMIN

Test Condition

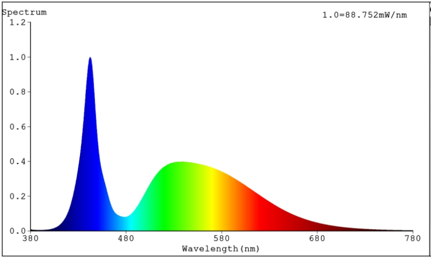
Temprature : 25.3Deg RH : 65.0%

Scan Range : 380nm-780nm IP : 44844 (68%)

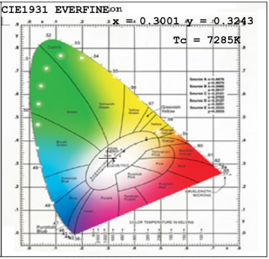
T : 40 ms

Test Type : Fast Test Delicacy : High

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

CIE Color Parameters:

Chromaticity Coordinate: x=0.3001 y=0.3243/u'=0.1908 v'=0.4639(duv=7.40e-03)

CCT:Tc= 7285K Prcp WaveL: λd=488.2nm Purity=11.9%

Peak WaveL:λp=442nm Half Width:Δλp=17.4nm Ratio:R=12.1% G=84.4% B=3.5%

Render Index:Ra=69.9

R1 =68 R2 =71 R3 =74 R4 =71 R5 =72 R6 =66 R7 =77

R8 =61 R9 =0 R10=33 R11=73 R12=48 R13=67 R14=86 R15=62

LEVEL:OUT WHITE:ANSI_6500K

Photo Parameters:

Flux = 2574.6lm Eff. : 0.00 lm/W Fe = 6.617 W

Fmol(umol/s):2.923e+000 Fluorescence and blue light ratio:2.171 Fluorescent efficiency:0

Electrical parameters:

V = 3.364 V I = 0 A P = 0 W PF = 0

EVERFINE
杭州市滨江区滨康路669号 http://www.everfine.cn