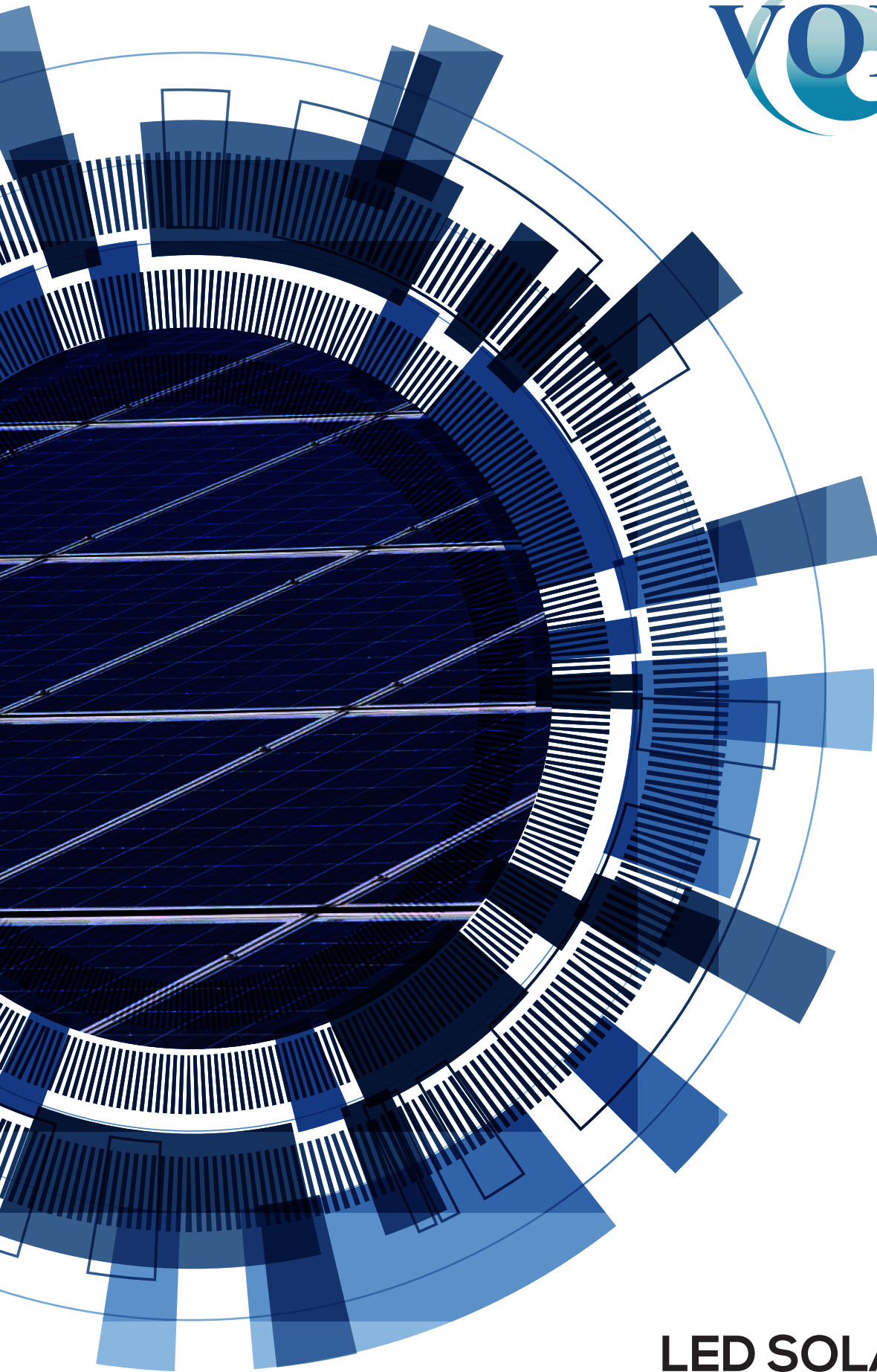




**LED SOLAR LIGHT
CATALOGUE 2025-2026**
Light up your future

SOLAR INTERGRATED (VSL-002)

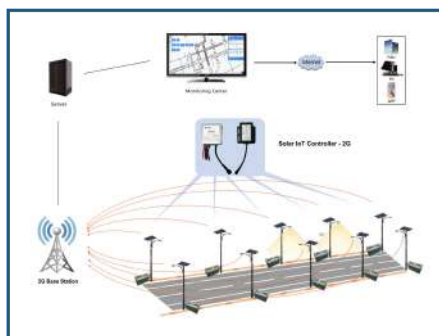
STANDARD SPECIFICATIONS

Volux Integrated All in One LED street light simplify Sun Power and Energy Efficient LED into a single easy to install and maintain all in one solar street light. Equip with smart Microwave sensors, this smart solar lighting ensure theres enough energy when users need it. When there's no users on the road the lights will dimmed to 20%. Volux All in one solar street light can also work with GSM smart controller to connect thru IOT Internet for energy and smart monitoring purpose.

Picture Reference



LED Type	Lamp Power (Typical Power)	40W	60W	80W/100W	120W
	Efficiency	150 - 175lm			
	Size	1490x420x44mm	1490x420x44mm	1490x579x44mm	1490x735x44mm
	CCT	3000-6500K			
	CRI	> 70			
LiFePO4 Lithium Battery	Capacity	30Ah	40Ah	30Ah	52Ah
	Lifespan	25 Years Solar Panel / 15 years LED / 10 Years battery & Controller			
	Working Temperature	-10 to 60 Degree Celsius			
Controller	Charge Time	40 to 60w PWM, 80 to 120w MPPT charging, 4 - 6 hours			
	Lighting	Whole night (12 hours) with up to 3 days Autonomy			
	Mode	Time Control / Light Dimming Control / MW Sensor control			
Solar Panel	Power	80w	100w	150w	210w
	Voltage	DC 12V		DC24V	
	Efficiency	>19%			
Microwave Sensor		Yes	Optional		
Material of casing		Aluminium Alloy			
Smart Control		Smart IOT nema controller for Real Time Solar lights monitoring (optional)			
IP ratings		IP65			
Recommended height		3 -6m	6 - 8m	8 - 10m	8 - 12m
Warranty		5 Years			



Real Time Monitoring the system can send various information of the solar facilities in time, such as voltage, current, energy level, lighting rate, fault, current task and other information.

Controllable Lighting Time Operators can change lighting plan of different seasons through the remote platform without the need to go on site

Dimming Plan Operators can use the solar data gained from IOT platform to set the new dimming schedule to make sure the system is operating at the optimum level when needed. Then dimming can be set remotely without the need to go on site.

SOLAR INTEGRATED (VSL-002)

JABATAN KERJA RAYA (JKR) SPECIFICATIONS

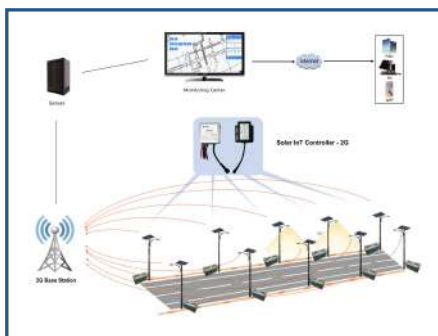
Volux Integrated All in One LED street light simplify Sun Power and Energy Efficient LED into a single easy to install and maintain all in one solar street light. Design to meet JKR Specification with 100% (4 hours), 60% (2 hours) and 40% (6 hours) with 2 days battery autonomy at 80% D.O.D. Volux All in one solar street light can also work with GSM smart controller to connect thru IOT Internet for energy and smart monitoring purpose.

ALL IN ONE SOLAR

Picture Reference



LED Type	Lamp Power (Typical Power)	40w	60w	80w	100w	120w	150w	180w
	Efficiency	150 - 170lm/w						
	Size	1253x734x45	1488x734x45	1490x580x45	1490x735x45	1490x735x45 1810x735x45	1810x735x45	2110x830x45
	CCT	3000-6500K (3500k standard JKR Spec)						
	CRI	>70						
LiFePO4 Lithium Battery	Capacity	25.6V / 30AH (768W)	25.6V / 52AH (768W)	25.6V / 60AH (1536W)	25.6V / 82AH (2099W)	25.6V / 104AH (2662W)	25.6V / 120AH (3072W)	25.6V / 156AH (3993W)
	System Voltage	25.6V						
	Working Temperature	-10 to 60 Degree Celsius						
Controller	Charge Time	MPPT charging, 4.5 hours Peak Hours (JKR Spec)						
	Lighting	MPPT charging, 4.5 hours Peak Hours (JKR Spec)						
	Mode	Whole night (12 hours) with up to 2 days Autonomy (80% D.O.D)						
Solar Panel	Power	130W	160W	150W	210W	210W 255W	255W	320W
	System Voltage	36V						
	Efficiency	>19%						
Microwave Senser		Optional						
Material of Casing		Aluminium Alloy						
Smart Control		Optional						
IP Rating		IP66						
Recommended Height		3 ~ 6M	6 ~ 8M	7 ~ 9M	9 ~ 12M			
Warranty		5 Years						



Real Time Monitoring the system can send various information of the solar facilities in time, such as voltage, current, energy level, lighting rate, fault, current task and other information.

Controllable Lighting Time Operators can change lighting plan of different seasons through the remote platform without the need to go on site

Dimming Plan Operators can use the solar data gained from IOT platform to set the new dimming schedule to make sure the system is operating at the optimum level when needed. Then dimming can be set remotely without the need to go on site.

SOLAR INTERGRATED (VSL-002)

DEWAN BANDARAYA KUALA LUMPUR (DBKL) SPECIFICATIONS

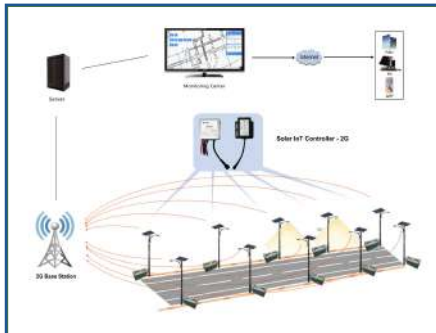
Volux Integrated All in One LED street light simplify Sun Power and Energy Efficient LED into a single easy to install and maintain all in one solar street light. Equip with smart Microwave sensors, this smart solar lighting ensure theres enough energy when users need it. When there's no users on the road the lights will dimmed to 20%. Volux All in one solar street light can also work with GSM smart controller to connect thru IOT Internet for energy and smart monitoring purpose.

ALL IN ONE SOLAR

Picture Reference



LED Type	Lamp Power (Typical Power)	60W	80W	120W	150W
	Efficiency	150 - 175lm			
	Size	1490x735x44mm		2110 × 828 × 58mm	
	CCT	3000-6500K (3000-3500K DBKL Spec)			
	CRI	≥ 70			
LiFePO4 Lithium Battery	Capacity	25.6V 104Ah (2662W)		25.6V 188Ah (4813W)	25.6V 235Ah (6016W)
	Lifespan	25 Years Solar Panel / 15 years LED / 10 Years battery & Controller			
	Working Temperature	-10 to 60 Degree Celsius			
Controller	Charge Time	6-8hours with standard illumination condition			
	Lighting	Whole night (12 hours) with up to 3 days Autonomy			
	Mode	Time Control / Light Dimming Control / MW Sensor control			
Solar Panel	Power	210W		320W	
	Voltage	36V			
	Efficiency	≥19%			
Microwave Sensor		Optional			
Material of casing		Aluminium Alloy			
Smart Control		Optional			
IP ratings		IP66			
Recommended height		6 - 8m	7 - 9m	9 - 12m	
Warranty		5 Years			



Real Time Monitoring the system can send various information of the solar facilities in time, such as voltage, current, energy level, lighting rate, fault, current task and other information.

Controllable Lighting Time Operators can change lighting plan of different seasons through the remote platform without the need to go on site

Dimming Plan Operators can use the solar data gained from IOT platform to set the new dimming schedule to make sure the system is operating at the optimum level when needed. Then dimming can be set remotely without the need to go on site.

SOLAR SEPARATE SYSTEM

INTELLIGENT LIGHTING SYSTEM (STREET LIGHT)

SOLAR LED STREET LIGHT SEPARATED SYSTEM FOR HIGH OUTPUT

Volux Separated Solar LED Street lights system offers unparalleled performance with capability of maintain up to 100% of Light output power through the night for 12 hours. This system is designed for road where there is high traffic or pedestrian volume and maximum reliability is utmost important. This system can also pair with PEAK smart IOT controller for connection to central server for monitoring and maintenance purpose.

LED Type	Lamp Power (Typical Power)	35W	50W	75W	100W	120W	180W
	Efficiency	130 - 150lm/w					
	Size	Various					
	CCT	3000-6500K					
	CRI	> 70					
LiFePO4 Lithium Battery	Capacity	1800Wh	2400Wh	1800Wh	2400Wh	3000Wh	3600Wh
	Lifespan	8-10 Years					
	Working Temperature	-10 to 60 Degree Celsius					
Controller	Charge Time	PWM Charging 4 - 6 hours					
	Lighting	Whole night (12 hours) with up to 3 days Autonomy					
	Mode	Time Control with Lighting Autonomy					
Solar Panel	Power	100W	150W	2x120w	2x150w	400W	
	Voltage	DC 36V					
	Efficiency	>19%					
Microwave Sensor		Optional					
Material of casing		Die Cast Aluminium					
Smart Control		Yes					
IP ratings		IP66					
Recommended height		3 - 4m	4 - 6m	6 - 10m		8 - 12m	
Warranty		5 Years					



SOLAR SEPARATE SYSTEM

INTELLIGENT LIGHTING SYSTEM (FLOOD LIGHT)



LED Flood Light



Solar Panel

Specification (Standard)

Model LED Flood Light	Power	CCT	Lumen	Battery	Mode	IP Rating	Life Times	Solar Panel	Panel Wattage
VSL-FL-40W	40W	3000K 6500K	150- 175lm/w	12.8V 30Ah	Time Control with Light dimming with Sensor Control	IP66	Above 50,000H	1490x420x44mm	80W
VSL-FL-60W	60W			12.8V 40Ah				1490x420x44mm	100W
VSL-FL-80W	80W			12.8V 60Ah				1490x579x44mm	150W
VSL-FL-120W	100W			12.8V 60Ah					150W
VSL-FL-120W	120W			12.8V 104Ah				1490x735x44mm	210W

Specification (JKR)

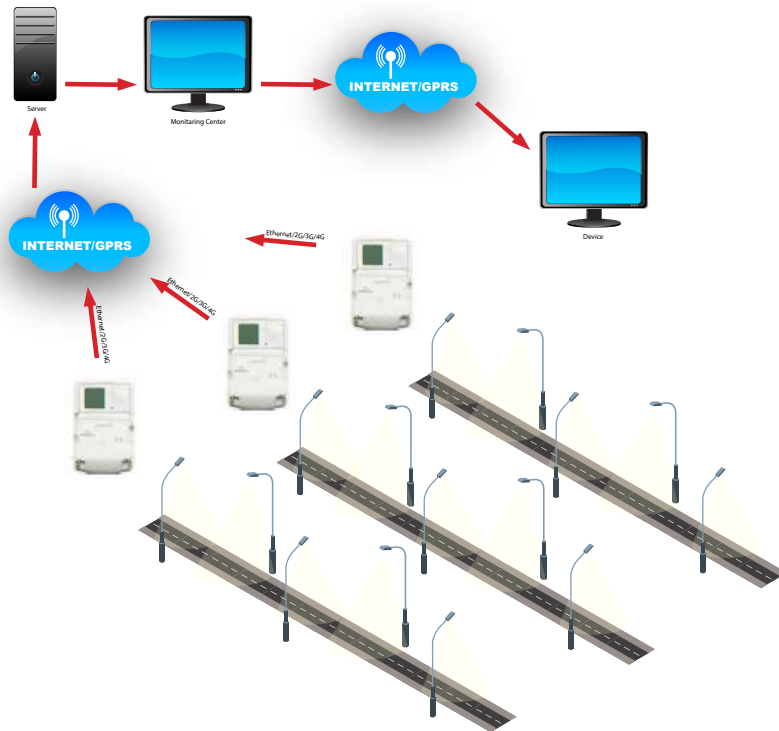
Model LED Flood Light	Power	CCT	Lumen	Battery	Mode	IP Rating	Life Times	Solar Panel	Panel Wattage
VSL-FL-60W	60W	3000K 6500K	150- 175lm/w	25.6V 45Ah	Time Control with Light dimming with Sensor Control	IP66	Above 50,000H	1490x579x44mm	150W
VSL-FL-80W	80W			25.6V 60Ah					
VSL-FL-120W	120W			25.6V 104Ah				1490x735x44mm	210W
VSL-FL-150W	150W			25.6V 112Ah				1650 x 830 x 60mm	255W

Specification (DBKL)

Model LED Flood Light	Power	CCT	Lumen	Battery	Mode	IP Rating	Life Times	Solar Panel	Panel Wattage
VSL-FL-60W	60W	3000K 6500K	150- 175lm/w	25.6V 104Ah	Time Control with Light dimming with Sensor Control	IP66	Above 50,000H	1490x735x44mm	210W
VSL-FL-80W	80W			25.6V 188Ah					
VSL-FL-120W	120W			25.6V 235Ah				2110x828x58mm	320W
VSL-FL-150W	150W								

SMART SYSTEM

RF Solution



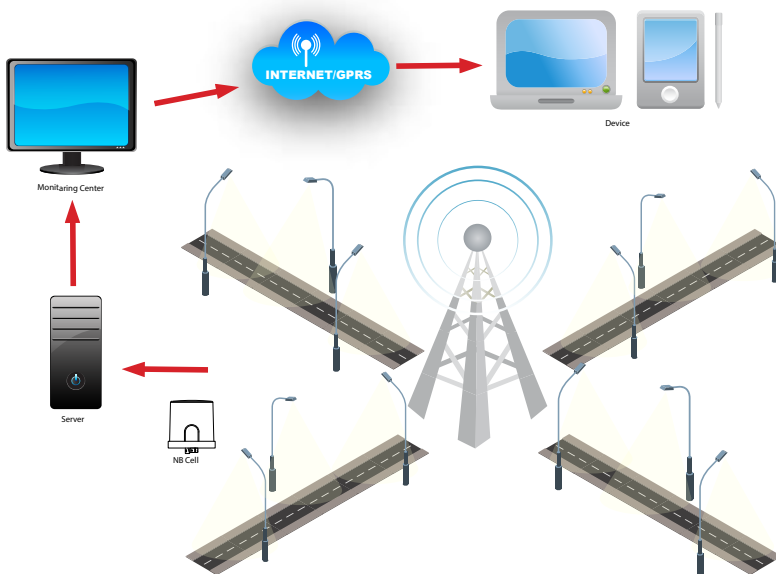
Application

- City road light smart control
- Industrial park, factory and indoor lighting control
- Tunnel lighting and solar lighting control

Features

- Easy installation
- Flexible system
- Remote monitoring and control
- Utility-grade energy measurement and GPS mapping of lights

NB-IoT / GPRS / GSM



Application

- City road lighting smart control
- Solar light smart control
- Parking a lot smart lighting control

Features

Installation simply, low power consumption, low cost, big coverage, large capacity, high stable

SMART SYSTEM

RF Solution Features

- Smart remote control mode: Longitude and latitude, photocell, timer control and longitude , latitude and photocell combined control mode.
- Multiple failure detection: lamp on/ off, outage/power on alarms, creepage, over-voltage, over-current, undervoltage, AC contactor and circuit breaker abnormal, power cabinet tilted, door open unexpected, water in cabinet alarms, etc.
- Built-in Global functions meter, Utility Grade Measurement up to 0.5%. Accuracy, active and reactive power, current leakage and power factor detection, energy consumption reporting.
- Support smart meter reading by remotely.
- Upgrading locally/remotely: USB disk/Ethernet, GPRS.
- Uplink communication GSM Downlink communication: RF mesh network.
- Utility battery charging and discharging, 8 hours operation back source

RF Nodes

- Self-forming & Self-restoring mesh network.
- 96-264VAC Input, (96-400VAC optional).
- With current, voltage, power, power factor, electric energy remote reading functions.
- Remote switch on/off/dimming.
- Lighting time statistics, fault time statistics, energy accumulation remote reading.
- Multiple fault detection and alarms: Lamp failure, compensation capacitor failure, fuse failure, power failure, pole leakage, node lost, relay fault, lamp current leakage, over-voltage, over-current , node high temperature, lamp life, overhaul door open, pole tilt and other active alarm functions. (optional for some functions).
- 0-10V/PWM/DALI dimming mode.
- Full autonomous photocell functionality (No wireless network required) (optional).
- Integrated GPS in each node for Real time Asset Reporting (optional).
- Integrated pole tilted sensor (optional).

Data Concentrator



Parameter

Operating Voltage: 100-500VAC
Working Frequency: 47-63HZ
Power Consumption: SW
Ingress Protection: IP54
Interfaces: DO*4, DI(AC)*2, DI(AC)*6, RS485 *1
Working Temperature: -40°C~+85°C
Relative Humidity: <95%
Dimension: 288mm*177mm*95mm

Wireless Gateway



Model Selection:

Downlink Communications

ZigBee

Model

MODEL: PEAK-RTU500Z(M)

LCU12Z, LCU12M



Dimension:
125mm*60mm*45mm

LCU16Z, LCU16M



Dimension:
Φ84MM*97MM

Parameters:

Working Temperature: -40°C~+85°C
Ingress Protection: IP67
Communication Mode: Radio Frequency
Operating Frequency: 2.4GHz/915/868MHz
Network Communication: IEEE 802.15.4

SMART SYSTEM

NB-IoT / GPRS / GSM Features

- CSAOSI Alliance Standard
- NEMA interface
- Plug and Play, Connection and Communication

1. Big coverage, 20dB gain

Increase the density of narrow band power
Resending times: 16 times
Encode gain

2. Low power consumption, 10 years lifetime of battery

Simplify protocol, low chip power
High efficiency of power amplifier
Short time of transmitting and receiving

3. Large connection, 50000 connection for every community

- High efficiency of radio spectrum
- Data package is small
- Ultimate low ratio of terminal activation

4. Low cost

- Simplify hardware of radio
- Simplify protocol to reduce cost
- Reduce the complication of base band

Technical Features Determine Application Scene

- Low data flow
- Bad signal area
- Large density of install
- Power input not convenient
- Time delay is not sensitive

LCU31G



Dimension:
Φ81mm*51.5mm (MAX)

LCU51L TE



Dimension:
65mm*60mm*32mm (MAX)

1. DC input: 12~24V DC/ 120mA.

2. Be available to use Micro SIM card or internal chip SIM card.

3. With communication interface to connect with digital driver to realize remote control.

4. Capable of reading current / voltage / power / power factor / electronic energy by remote.

5. With function of detecting lamp failure.

6. With function of making it alarm automatically.

SOLAR PROJECT REFFERENCES



30w Solar LED
Masjid Wilayah KL, JKR KL



60w Solar LED
Petronas Plant, Terengganu



60w Solar LED
Peng. Hulu, Perak, JKR KL



30w Solar LED
Kuala Kangsar, Sunway Dev.



80w All in One
Silverlake Perak, Silverland Dev.



60w All in One
Hospital S. Perai, H. Seberang Perai

SOLAR PROJECT REFFERENCES



60w All in One
Logi Air, Jbt Air Selangor



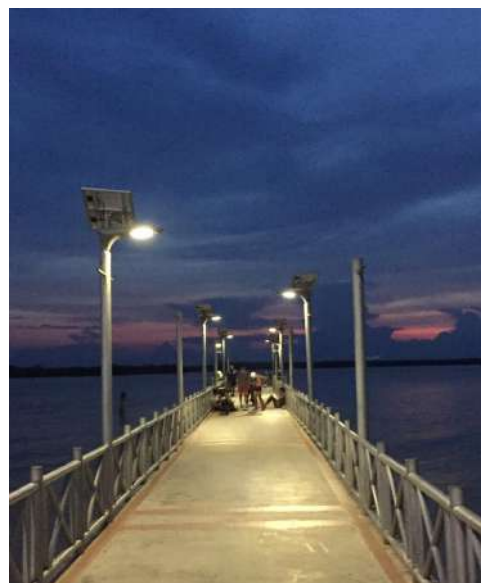
80w All in One
Tsu Chi HQ KL



120w Solar LED
Lebuh AMJ, JKR Melaka



120w Solar LED
Jalan Kapar, Klang, JKR Selangor



120w Solar LED
Melaka Village, MBMB

SOLAR PROJECT REFFERENCES



All in One
TNB Station Kapar, Selangor



All in One
Kawasan Perindustrian Ringan
Seremban



All in One
JKR Kuala Selangor



All in One
JKR Pulau Indah

SOLAR PROJECT REFFERENCES



**All in One
Garden Solar Klang**



**All in One
Majlis Perbandaran Klang**



**All in One
Tanjung Harapan Klang**



**All in One
Majlis Perbandaran Batu Pahat**

SOLAR PROJECT REFFERENCES



**All in One
Jkr Selangor Quarters**



**All in One
Playground Majlis Bandaraya Subang Jaya**

SOLAR PROJECT REFFERENCES



All in One
Majlis Daerah Jelebu



All in One
Majlis Daerah Kuala Pilah

SOLAR PROJECT REFFERENCES



All in One
JKR Terengganu, Besut



All in One
JKR Negeri Sembilan, Kuala Pilah