

CB IP66

The SIMPLITZ Solar Streetlight Integrated represents cutting-edge solar streetlight technology. It features a monocrystalline solar panel with high conversion efficiency, a secure and reliable automotive power lithium iron phosphate battery, an ultra-high light efficiency light engine, an intelligent MPPT controller, and a compact all-in-one structure for easy installation and maintenance. This ensures both road safety and pedestrian comfort.

The SIMPLITZ Solar Streetlight Integrated is available in General and Premium editions, catering to ME3-ME5 road lighting applications, including urban and rural road lighting, among others.

Benefits

Cost Saving

- Extremely low operation cost
- Extended service life
- High efficacy up to 180 lm/W @3000K

Flexible Installation

- Solar panel tilt angle adjustable
- Light engine tilt angle adjustable
- Mounting on 60- 80mm diameter pole

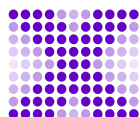
Durability and Reliability

- Robust aluminum body of light engine
- High protection level IP66 & IK07

Applications

We support a wide range of applications including:

- Pathways
- Rural areas
- Parks
- Offices, campuses
- Suburban roads
- Inner city roads



Light Engine Specifications

| | | | | | | |
|----------------------------|---|---------|---------|----------|----------|----------|
| Power | 30W | 40W | 50W | 70W | 85W | 100W |
| Luminous Flux White @5700K | 5400 lm | 7200 lm | 9000 lm | 12600 lm | 15300 lm | 18000 lm |
| Efficacy | Up to 180 lm/W @ 5700K | | | | | |
| CCT & CRI | 3000K, 4000K, 5700K & CRI 70, others on request | | | | | |
| SDCM | 5 SDCM | | | | | |
| Beam Angle | Type II, SMB (150°X70°) | | | | | |
| Optical | PC, Polycarbonate | | | | | |

Electrical and Mechanical Specifications - General Edition

| | | | | | | |
|---------------------------------------|---|---------|---------|---------|---------|---------|
| Battery Type | Lithium iron phosphate | | | | | |
| Battery Capacity | 153.6Wh | 230.4Wh | 307.2Wh | 460.8Wh | 460.8Wh | 614.4Wh |
| Battery Ampere Hour | 12Ah | 18Ah | 12Ah | 18Ah | 18Ah | 24Ah |
| Battery Voltage | 12.8V | 12.8V | 25.6V | 25.6V | 25.6V | 25.6V |
| Battery Charging & Discharging Cycles | DOD 100%, 2000 Cycles; DOD 80%, more than 4000 Cycles | | | | | |
| Panel Type | Mono crystalline | | | | | |
| Panel Voltage | 18V | 18V | 36V | 36V | 36V | 36V |
| Panel Peak Wattage | 32W | 42W | 54W | 70W | 83W | 94W |
| Charge Controller Type | MPPT | | | | | |
| Charge Controller Wattage | 60W | 60W | 60W | 100W | 100W | 100W |

Electrical and Mechanical Specifications - Premium Edition

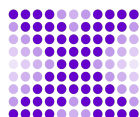
| | | | | | | |
|---------------------------------------|---|---------|---------|-------|---------|----------|
| Battery Type | Lithium iron phosphate | | | | | |
| Battery Capacity | 384.0Wh | 537.6Wh | 614.4Wh | 768Wh | 921.6Wh | 1228.8Wh |
| Battery Ampere Hour | 30Ah | 42Ah | 24Ah | 30Ah | 36Ah | 48Ah |
| Battery Voltage | 12.8V | 12.8V | 25.6V | 25.6V | 25.6V | 25.6V |
| Battery Charging & Discharging Cycles | DOD 100%, 2000 Cycles; DOD 80%, more than 4000 Cycles | | | | | |
| Panel Type | Mono crystalline | | | | | |
| Panel Voltage | 18V | 18V | 36V | 36V | 36V | 36V |
| Panel Peak Wattage | 54W | 83W | 94W | 110W | 124W | 160W |
| Charge Controller Type | MPPT | | | | | |
| Charge Controller Wattage | 60W | 60W | 60W | 100W | 100W | 100W |

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

Specifications are subject to change without notice. Errors and omission excepted, always make sure to use the most recent release.
V1.0



Control and Dimming

| | |
|-----------------------|--|
| Sensor | Yes, Microwave Sensor |
| Solar Dimming Profile | <p>General Edition: The luminaires come with a factory preset dimming profile:</p> <p>First 2 Hrs - On motion: 100%, without motion: 20%;</p> <p>Next 3 Hrs - On motion: 40%, without motion: 20%;</p> <p>Next 5 Hrs - On motion: 20%, without motion: 10%;</p> <p>Rest of the Night - On motion: 50%, without motion: 20%</p> <p>Premium Edition: The luminaires come with a factory preset dimming profile:</p> <p>First 2 Hrs - On motion: 100%, without motion: 30%;</p> <p>Next 3 Hrs - On motion: 60%, without motion: 20%;</p> <p>Next 5 Hrs - On motion: 30%, without motion: 10% ;</p> <p>Rest of the Night - On motion: 50%, without motion: 20%</p> |
| Grid Connection Type | Off grid |

Other Specifications

| | |
|-----------------------|--|
| Housing | Aluminum |
| Color | RAL 9006, others on request |
| Mounting Type | Post-top mounting |
| Operating Temperature | Charging temperature: 0°C to +55°C; Storage temperature: -30°C to +55°C |
| Storage Temperature | Within one month: -10°C to +35°C; Within one year: -10°C to +25°C |
| Environment | Outdoor, IP66/IK07 |
| Lumen Maintenance | 5 years warranty version: L70 - 100,000hrs |
| Safety Approval | IEC 60598, RoHS |

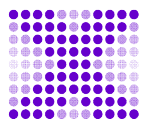
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Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

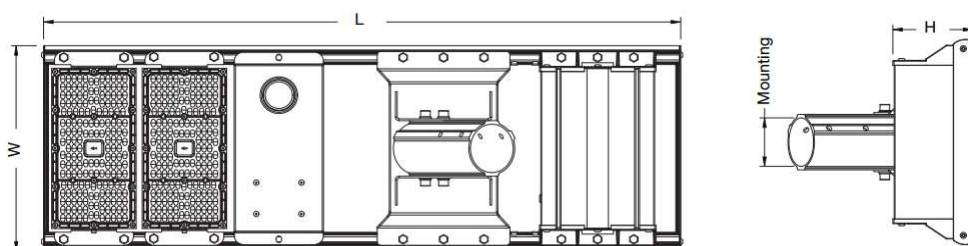
Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

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Light Engine Dimension

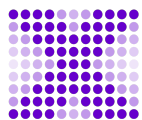


General

| Power | 30W | 40W | 50W | 70W | 85W | 100W |
|---------------|-----|-----|-----|------|------|------|
| Length (mm) | 506 | 686 | 806 | 1056 | 1296 | 906 |
| Width (mm) | 348 | 348 | 348 | 348 | 348 | 538 |
| Height (mm) | 133 | 133 | 133 | 133 | 133 | 133 |
| Mounting (mm) | 80 | 80 | 80 | 80 | 80 | 80 |

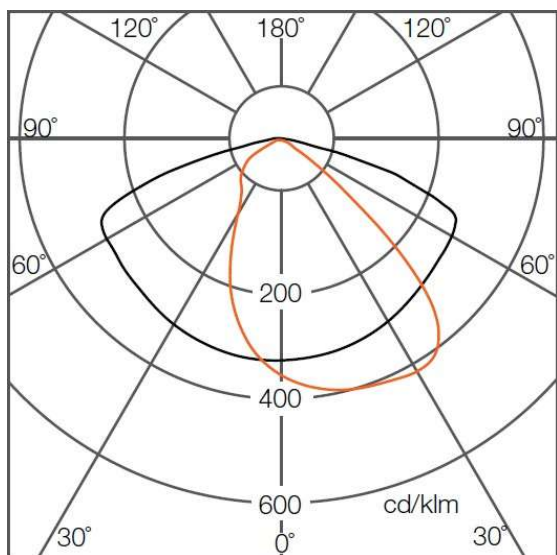
Premium

| Power | 30W | 40W | 50W | 70W | 85W | 100W |
|---------------|-----|------|-----|------|------|------|
| Length (mm) | 806 | 1296 | 906 | 1156 | 1326 | 1706 |
| Width (mm) | 348 | 348 | 348 | 538 | 538 | 538 |
| Height (mm) | 133 | 133 | 133 | 133 | 133 | 133 |
| Mounting (mm) | 80 | 80 | 80 | 80 | 80 | 80 |



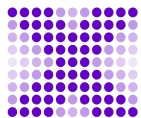
Light Distribution Curve

SNB (150° x 70°)



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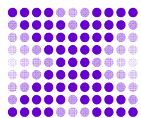
Product Configurator

| | Power | CRI-CCT | Version |
|---------------------------------|-------|-------------------|----------------|
| SIM Solar ST Integrated 30W 757 | | | |
| SIM Solar ST Intehrated | 30W | 730: Ra 70, 3000K | Blank: General |
| | 40W | 740: Ra 70, 4000K | Pro: Premium |
| | 50W | 757: Ra 70, 5700K | |
| | 70W | | |
| | 85W | | |
| | 100W | | |

ORDERING CODES

Fixtures - General

| Description | IC | Power | CCT |
|----------------------------------|-----------------|-------|-------|
| SIM Solar ST Integrated 30W 730 | TXGL25100057455 | 30W | 3000K |
| SIM Solar ST Integrated 30W 740 | TXGL25100057555 | 30W | 4000K |
| SIM Solar ST Integrated 30W 757 | TXGL25100057655 | 30W | 5700K |
| SIM Solar ST Integrated 40W 730 | TXGL25100057755 | 40W | 3000K |
| SIM Solar ST Integrated 40W 740 | TXGL25100057855 | 40W | 4000K |
| SIM Solar ST Integrated 40W 757 | TXGL25100057955 | 40W | 5700K |
| SIM Solar ST Integrated 50W 730 | TXGL25100058055 | 50W | 3000K |
| SIM Solar ST Integrated 50W 740 | TXGL25100058155 | 50W | 4000K |
| SIM Solar ST Integrated 50W 757 | TXGL25100058255 | 50W | 5700K |
| SIM Solar ST Integrated 70W 730 | TXGL25100058355 | 70W | 3000K |
| SIM Solar ST Integrated 70W 740 | TXGL25100058455 | 70W | 4000K |
| SIM Solar ST Integrated 70W 757 | TXGL25100058555 | 70W | 5700K |
| SIM Solar ST Integrated 85W 730 | TXGL25100058655 | 85W | 3000K |
| SIM Solar ST Integrated 85W 740 | TXGL25100058755 | 85W | 4000K |
| SIM Solar ST Integrated 85W 757 | TXGL25100058855 | 85W | 5700K |
| SIM Solar ST Integrated 100W 730 | TXGL25100058955 | 100W | 3000K |
| SIM Solar ST Integrated 100W 740 | TXGL25100059055 | 100W | 4000K |
| SIM Solar ST Integrated 100W 757 | TXGL25100059155 | 100W | 5700K |



Fixtures - Premium

| Description | IC | Power | CCT |
|--------------------------------------|-----------------|-------|-------|
| SIM Solar ST Integrated 30W 730 Pro | TXGL25100059255 | 30W | 3000K |
| SIM Solar ST Integrated 30W 740 Pro | TXGL25100059355 | 30W | 4000K |
| SIM Solar ST Integrated 30W 757 Pro | TXGL25100059455 | 30W | 5700K |
| SIM Solar ST Integrated 40W 730 Pro | TXGL25100059555 | 40W | 3000K |
| SIM Solar ST Integrated 40W 740 Pro | TXGL25100059655 | 40W | 4000K |
| SIM Solar ST Integrated 40W 757 Pro | TXGL25100059755 | 40W | 5700K |
| SIM Solar ST Integrated 50W 730 Pro | TXGL25100059855 | 50W | 3000K |
| SIM Solar ST Integrated 50W 740 Pro | TXGL25100059955 | 50W | 4000K |
| SIM Solar ST Integrated 50W 757 Pro | TXGL25100060055 | 50W | 5700K |
| SIM Solar ST Integrated 70W 730 Pro | TXGL25100060155 | 70W | 3000K |
| SIM Solar ST Integrated 70W 740 Pro | TXGL25100060255 | 70W | 4000K |
| SIM Solar ST Integrated 70W 757 Pro | TXGL25100060355 | 70W | 5700K |
| SIM Solar ST Integrated 85W 730 Pro | TXGL25100060455 | 85W | 3000K |
| SIM Solar ST Integrated 85W 740 Pro | TXGL25100060555 | 85W | 4000K |
| SIM Solar ST Integrated 85W 757 Pro | TXGL25100060655 | 85W | 5700K |
| SIM Solar ST Integrated 100W 730 Pro | TXGL25100060755 | 100W | 3000K |
| SIM Solar ST Integrated 100W 740 Pro | TXGL25100060855 | 100W | 4000K |
| SIM Solar ST Integrated 100W 757 Pro | TXGL25100060955 | 100W | 5700K |

Accessories

| Description | IC |
|------------------------------------|-----------------|
| Remote for SIM Solar ST Integrated | TXGO25300105355 |

