

INVO SSLX Performance 100

The INVO SSLX PERFORMANCE maintains all of the same quality technology and components of the SSLX Pro Range, while offering a simpler design with the purpose of offering a more affordable solution without compromise on durability and performance.

LIGHTING

Nominal flux Nominal Power Efficiency Chips LED LED Lifetime Optics & CCT Light Height 19,600 Lumens 100 Watts 196 Lumens / Watts Philips Luxeon 30-30 Over 100,000 hours LM80 TIIS / T3-M / T-V 2300 to 6500K From 8-10 meters

Lithium Iron Phosphate LIFEP04

-10°C to 70°C (Optional -40°C to 70°C)

Over 24 hours at full charge - 4 rainy days back up

Over 5000 Cycles @ 50% DOD over 10 years lifetime

BATTERY

Technology Capacity Autonomy Charging Time Lifespan Working Temp

ENERGY Solar Panel

Cells Type

Certificates

250 Watts / 18V Monocrystaline Panel Grade A 25 years IEC 61215 - IEC 61730 I and II - IEC 60904

Aluminium and Stainless Steel

ELECTRONIC

ControllerMPPT Smart ControllerSensorMicrowave 360° Motion SensorCablingWaterproof Connector, Plug and PlayProtectionBattery Management System (BMS)

1280 Wh

5-6 hours

MECHANICAL

Pole Mounting Material

DIMENSIONS

Product Carton Size Net Weight Gross Weight Qty / Ctn 20"/40" 1260 x 880 x 271 1320 x 945 x 245 25 kg 30 kg 81/162

89mm - 76mm









5 YEAR W

S YEAR W

CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR

*Procure Direct offers a 5 Year Limited Warranty for the SSLX Performance luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to PD instructions. Fixture suitable for ambient temperature from -10° to 50°. PV Panels: 20 year performance warranty. 3 year warranty on battery.



 δIP_{65}

LUMINAIRE HOUSING & LEDS

19,600 LUMENS - 2300 TO 6500 K

Extruded low-copper aluminium. Protection class (IP65). We use a high guality Polyester Powder Coating from AKZO NOBEL. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for colour retention for this product.

Our Luminaire is equipped with PHILIPS LUXEON HE PLUS High efficiency chips offering 196 Lumens per Watt efficacy.

Our luminaire also complies with the DARK SKY requirement for light pollution with an Upward lighting of 0.31%

LED	LED QTY (PCS)	LENS (PCS)	CRI	LUYERD
3030	72	35	> 80	BY PHILIPS LUMILEDS

DIFFERENT OPTICS*

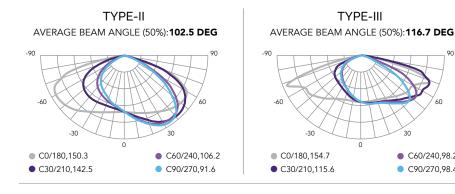
Our different optics will allow you to optimise the lighting results of your projects

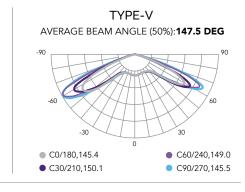


C60/240.98.2

C90/270.98.4

LIGHT DISTRIBUTION CURVES







INVO SSLX Performance 120

The INVO SSLX PERFORMANCE maintains all of the same quality technology and components of the SSLX Pro Range, while offering a simpler design with the purpose of offering a more affordable solution without compromise on durability and performance.

LIGHTING

Nominal flux Nominal Power Efficiency Chips LED LED Lifetime Optics & CCT Light Height 23,520 Lumens 120 Watts 196 Lumens / Watts Philips Luxeon 30-30 Over 100,000 hours LM80 TIIS / T3-M / T-V 2300 to 6500K From 8-10 meters

BATTERY

TechnologyLithium Iron Phosphate LIFEPO4Capacity1536 WhAutonomyOver 24 hours at full charge - 4 rainy days back upCharging Time5-6 hoursLifespanOver 5000 Cycles @ 50% DOD over 10 years lifetimeWorking Temp-10°C to 70°C (Optional -40°C to 70°C)

ENERGY Solar Panel

Cells Type

Certificates

250 Watts / 18V Monocrystaline Panel Grade A 25 years IEC 61215 - IEC 61730 I and II - IEC 60904

ELECTRONIC

ControllerMPPT Smart ControllerSensorMicrowave 360° Motion SensorCablingWaterproof Connector, Plug and PlayProtectionBattery Management System (BMS)

MECHANICAL

Pole Mounting Material

DIMENSIONS

Product Carton Size Net Weight Gross Weight Qty / Ctn 20"/40" 1260 x 880 x 271 1320 x 945 x 245 25 kg 30 kg 81/162

89mm - 76mm

Aluminium and Stainless Steel









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 δIP_{65}

LUMINAIRE HOUSING & LEDS

23,520 LUMENS - 2300 TO 6500 K

Extruded low-copper aluminium. **Protection class** (IP65). We use a high quality Polyester Powder Coating from **AKZO NOBEL**. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for colour retention for this product.

Our Luminaire is equipped with **PHILIPS LUXEON HE PLUS** High efficiency chips offering **196 Lumens per Watt efficacy**.

Our luminaire also complies with the **DARK SKY** requirement for light pollution with an **Upward lighting of 0.31%**

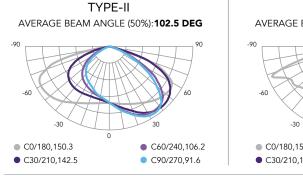
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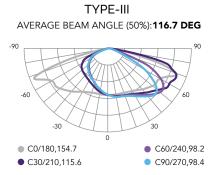
DIFFERENT OPTICS*

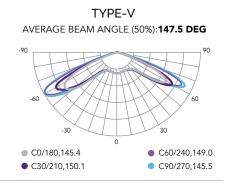
Our different optics will allow you to optimise the lighting results of your projects



LIGHT DISTRIBUTION CURVES









INVO SSLX Performance Dual 50

The INVO SSLX PERFORMANCE maintains all of the same quality technology and components of the SSLX Pro Range, while offering a simpler design with the purpose of offering a more affordable solution without compromise on durability and performance.

LIGHTING

Nominal flux Nominal Power Efficiency Chips LED LED Lifetime Optics & CCT Light Height 2 x 9,800 Lumens 2 x 50 Watts 196 Lumens / Watts Philips Luxeon 30-30 Over 100,000 hours LM80 TIIS / T3-M / T-V 2300 to 6500K From 5-6 meters

BATTERY

TechnologyLithium Iron Phosphate LIFEPO4Capacity1280 WhAutonomyOver 24 hours at full charge - 4 rainy days back upCharging Time5-6 hoursLifespanOver 5000 Cycles @ 50% DOD over 10 years lifetimeWorking Temp-10°C to 70°C (Optional -40°C to 70°C)

ENERGY Solar Panel

Cells Type

Certificates

250 Watts / 18V Monocrystaline Panel Grade A 25 years IEC 61215 - IEC 61730 I and II - IEC 60904

Aluminium and Stainless Steel

ELECTRONIC

ControllerMPPT Smart ControllerSensorMicrowave 360° Motion SensorCablingWaterproof Connector, Plug and PlayProtectionBattery Management System (BMS)

89mm - 76mm

MECHANICAL

Pole Mounting Material

DIMENSIONS

Product Carton Size Net Weight Gross Weight Qty / Ctn 20"/40" 1260 x 880 x 271 1320 x 945 x 245 25 kg 30 kg 81/162









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CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR

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LUMINAIRE HOUSING & LEDS 2 X 9,800 LUMENS - 2300 TO 6500 K

Extruded low-copper aluminium. **Protection class** (IP65). We use a high quality Polyester Powder Coating from **AKZO NOBEL**. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for colour retention for this product.

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Our luminaire also complies with the **DARK SKY** requirement for light pollution with an **Upward lighting of 0.31%**

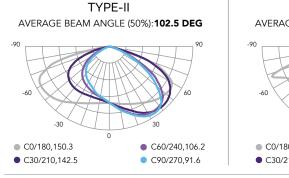
LED	LED QTY (PCS)	LENS (PCS)	CRI	
3030	72	35	> 80	

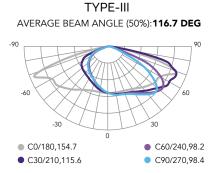
DIFFERENT OPTICS*

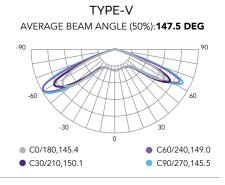
Our different optics will allow you to optimise the lighting results of your projects



LIGHT DISTRIBUTION CURVES









SPECIFICATIONS

♦ IP₆₅





BATTERY LIFEPO4 + OVER 10 YEARS LIFETIME

The SSLX Performance Series is equipped with **Iron Phosphate Lithium LiFePo4** battery. This technology is proved to be **the best chemical technology for solar applications on the market**.

With a cycle life of over 5000 Cycles @ 50% DOD, **the battery** enjoys a lifespan of over 10 years.



EXTREME TEMPERATURE -10 °C TO 70 °C (-40 °C OPTIONAL)

Most suppliers offer a standard Lithium LiFePo4 batteries with a working temperature range from -10°C TO 70 °C. However, upon request we can offer a new Special LIFEPO4 battery, with working range of -40 °C. to 70 °C.

EASY MAINTENANCE & ANTI-THEFT SCREWS

Easy and direct access to the battery casing for maintenance. The fixation are made with anti-theft screws, which request special tooling to unscrew.



ALUMINUM WATERPROOF CASING & NATURAL AIRFLOW

High temperatures negatively affect the battery's lifespan. This is why our batteries are **encapsulated in an aluminium waterproof casing** for a perfect heat dissipation.

In addition to that, the casing enjoys a natural airflow which **keeps the battery to ambient temperature**.

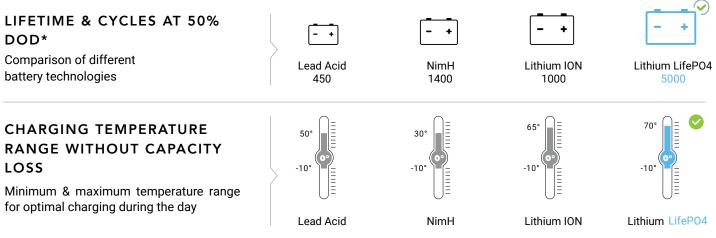
BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with **electronic circuit boards for a higher protection**, ensuring battery function optimisation no matter what the situation.



The BMS Protects against :

OVER/UNDER CURRENT	• OVERLOAD	• OVER/UNDER VOLTAGE	• OVER/UNDER CHARGE	• TEMPERATURE MANAGEMENT
СОМ	PARISONS	OF DIFFERENT	BATTERY TECHN	OLOGIES



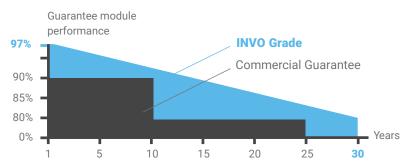


SOLAR PANEL 250 WATTS

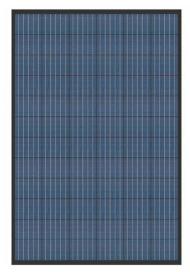
High efficiency mono-crystalline **Solar panels** with carefully selected **Grade A** Solar cells. Up to 20.4% efficiency, all protected by self-cleaning **tempered glass at 30 degrees** of inclination.

Its **anodized** aluminium alloy frame gives it a modern and elegant de- sign as well as perfect resistance to corrosion. They are also equipped with fully **waterproof Plug and Play** connectors.

OUR PV PERFORMANCE GUARANTEE







CONTROLLER MPPT

WATERPROOF CONNECTORS "PLUG & PLAY"

All our components are assembled **seamless and easy to access.** In a search for performance and reliability, our products are equipped with **MPPT** technology controller offering the best charging **efficiency on the market up to 98%.**

REMOTE CONTROL MONITORING

In order to facilitate all maintenance operations and above all to diagnose any possible problem, without having to intervene mechanically on the luminaire, **our luminaires are equipped with a wireless diagnostic system via remote control**



With a simple click it is possible to have real-time information such as:

- Automatic diagnosis in case of malfunction
- State of charge and battery history
- Real-time load and solar panel energy production history
- Age of the product and installation
- · Temperature and its history

FEATURES

Minimal stand-by power consumption

Current consumption ≤ 10mA

Intelligent battery management

- 3 phases of charging :
- Charge MPPTT
- Constant voltage
- Floating voltage

Intelligent LED driver

Auto detecting of dusk and dawn for automatic operation, 7 lighting programs configuration.

Anti black-out

Load adjust according to battery capacity assuring all night long lighting in any weather conditions.

The controller also acts against:

- Overload
- Overcurrent
- Overtemperature
- Overvoltage / Overload
- Overdischarge



MOTION SENSOR

MICROWAVE

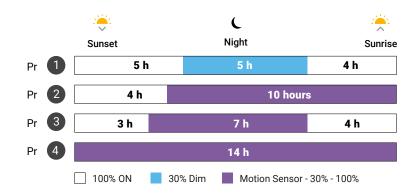
Our luminaires are equipped with microwave sensors that use the **Doppler effect** (like car radars) to detect nearby objects and measure the distance. The sensor emits a high frequency wave to reflect off of and analyse the objects in the vicinity. Since the microwaves **only detect specific objects**, detection reliability increases resulting in:

- · Much better reliability compared to the Infrared sensor
- Up to 360° Directivity



OPERATION MODE & LIGHTING SCHEDULE

In addition to automatic switching on and off, you have the possibility of choosing among **different modular operating modes** according to the needs of the project.



EASY INSTALLATION NO CABLING, NO TRENCHING

With a well designed bracket support, SSLX Performance is effortless and flexible to install. Free 360° rotation of the panel to always face the Sun.

INSERT, ORIENTATE & CHOOSE YOUR TILT.



For more information, or to book your FREE audit, call us on 01522 538212, email info@procuredirect.co.uk or visit us at www.procuredirect.co.uk

