



**8 - 12 m  
(24 - 40 ft)**



**>440 Wp  
solar power**



**Light fixture  
independent**



**4G/LTE  
Connected**

# Soluxio P440D

## The fully autonomous solar powered street light

FlexSol brings an incomparable level of efficiency and beauty to the world of solar-powered solutions. The proprietary solar technology and the modular design make the Soluxio applicable for multiple purposes. Whether you need lighting, connectivity, WiFi, surveillance solutions or more, Soluxio is the right product for the job.

Soluxio is 100% solar powered. The unique solar modules are made of monocrystalline PV cells and have an efficiency of >23%. Additionally, each solar module has a 4-channel MPPT which brings the solar power performance to the next level. The harvested solar energy is stored in a powerful lithium battery. The battery is located in the Control Unit, which is placed *inside* the pole behind the maintenance hatch.

Asset management was never easier with the Soluxio. Every solar pole is 4G/LTE connected. As a result, you can remotely monitor your asset and keep maintenance costs to a minimum.

Soluxio brings off-grid power anywhere you desire. For more information, please visit:

**[www.soluxio.lighting](http://www.soluxio.lighting)**



## Instant ROI & low TCO

No cabling + fast installation + low maintenance + no electricity bill = quick Return on Investment



## Easy asset management

Remotely monitor your Soluxio via the API or user-friendly web interface



## Better than thin film

Solar modules are made of monocrystalline PV cells with an efficiency of >23%



## Over-the-air-updates

Keep your Soluxio future proof with convenient access to latest software updates



## Fast & easy installation

Fully installed in 30 minutes due to plug-and-play design



## Light fixture independent

Use your own light fixture or other 3rd party equipment



## Made in the Netherlands

Designed, developed and produced in Delft, the Netherlands

# Soluxio P440D technical specifications

General	
Height	8 - 12 meter (24 - 40 feet)
Column material	Aluminum / steel / wood (other materials on request)
Column finish	Natural (anodizing / powder coating / colors on request)
Operating temperature	-20 °C to 60 °C (-4 °F to 140 °F)
FlexSol Solar Module	
Amount of solar modules	4
Solar cell technology	Monocrystalline silicon solar cells (best in market)
Solar cell efficiency	> 23% (up to 2x better than thin-film solar panels)
Total power	> 440 Wp
Number of strings per module	4 strings
Front sheet material	Borosilicate glass
Solar module colour	Black-white or full black
Dimensions per module	Ø 200 x 1110 mm (7.9"x 43.7")
Weight per module	~ 7 kg (15 lbs)
FlexSol Battery	
Battery technology	Lithium (NMC)
Battery capacity	852 - 1277 Wh
Battery Management System (BMS)	Integrated 4/5/6-cell monitoring and balancing
Service life	~10 years
Enclosure	Integrated in FlexSol Control Unit enclosure
FlexSol Control Electronics	
On-board mobile communication	GSM   LTE-M
Encryption	TLS 1.2
Global Navigation Satellite System (GNSS)	GPS, BeiDou, Galileo, GLONASS, QZSS
Over-the-Cable updateable	Yes (USB-programming device optional)
Over-the-Air updateable	Yes
Remote monitoring and configuring	Optional
Time and date	Astronomical clock
Smart city ready	Yes
Lighting	
LED luminaire	2x included
Luminaire model	Customizable
Lighting scheme	Automatic adaption to sunset and sunrise
Dimming scheme	Seasonal Dynamic Dimming
LED luminaire max. power	max. 80 W
Wildlife Edition (bat-friendly & turtle-friendly lighting)	On request
Color temperature	Customizable

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