

## A New Generation of Solar Lighting



# SolarRise

Urban Solar Lighting with  
detachable vertical solar cylinder

This is the  
**FUTURE**

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of solar lighting

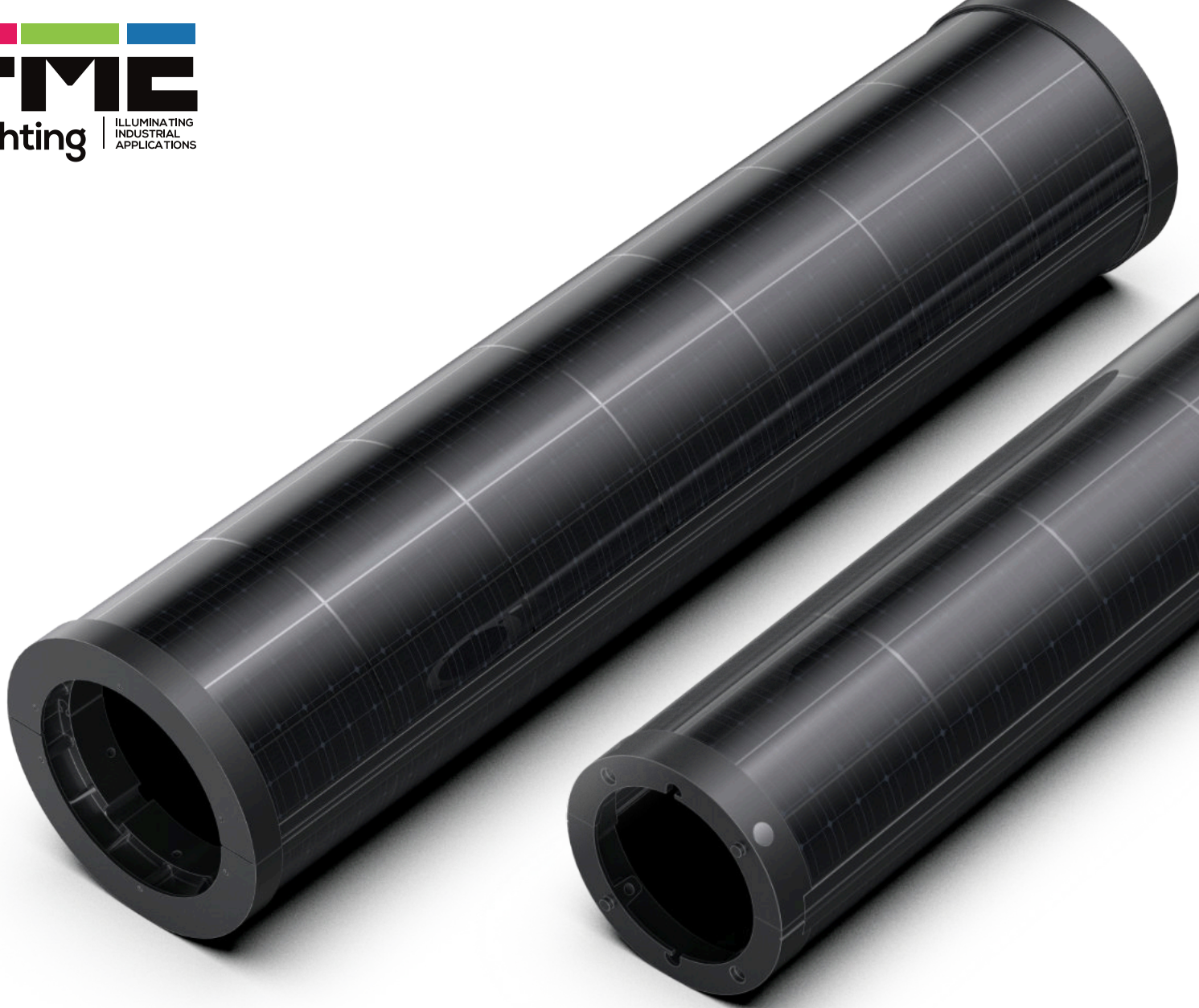




The SolarRise vertical solar cylinder is a new invention meant for pole-mounted application. In comparison to regular solar panels, the poles equipped with solar cylinder perform exceptionally well in terms of aesthetics and blend in seamlessly with the peaceful environment, appearing as traditional poles with beauty.

SolarRise is a vertical solar cylinder that features a modular design, making it easy to install and flexible to use. It can be mounted on various shapes of light poles, such as round, hexagonal, octagonal, or conical, within the allowable diameter. The best part is you don't need to replace the old pole if you would like to retrofit the traditional lights into solar. making it a hassle-free process.

SolarRise uses the high-power generation efficiency German brand Sunpower cell, which generates power 50% faster than traditional solar panels under low light conditions. The SolarRise is also protected by tempered glass, which makes it resistant to wind, sand, and UV. It is not prone to dust accumulation and has a service life of more than 20 years. Multiple SolarRise units could be installed on a single pole to achieve greater power.



## Specification

Model	<i>SolarRise-80</i>	<i>SolarRise-120</i>
Pmax	80W	120W
Vmp & Imp	18V 4.44A	18V 6.67A
Dimension	D160*1080mm	D240*1080mm
N.W	7.50kg	9.30kg
Pole diameter range	76~120mm	100~180mm
Solar cell efficiency	22.5%	
Cable & Connector	2.5mm <sup>2</sup> with universal MC4 plugs	
Lifetime	>20 years lifetime	
Operating temp.	-20C ~ +70C	



### Universal Application

SolarRise can be used in any type of poles and designs without dismantling them makes the application. Poles can be sourced separately, the detachable design with adjustable spacing brackets helps the mounting easy in every pole.



### 360° Full Day Charging

6 slim solar panels are fixed tightly on a hexagon frame. so it ensures 50% of solar panel will face to sunshine at any time of the day.



### Modular Installation

This solar cylinder module is based on modular design concept for easy installation and disassembly. It can be quickly and easily mounted on any suitable pole.



### Strong Wind Resistance

The cylindrical design reduces the wind resistance area, and each module is directly fastened to the pole by 12 screws for better wind resistance. It can stand well against even 10 grade typhoon.



### Never Snow Covering

Solar cylinder modular mounted in vertical, it is not easy to be covered by snow as regular solar panel. Ensure enough power can be generated even in very snowy climate. Never worry black out.



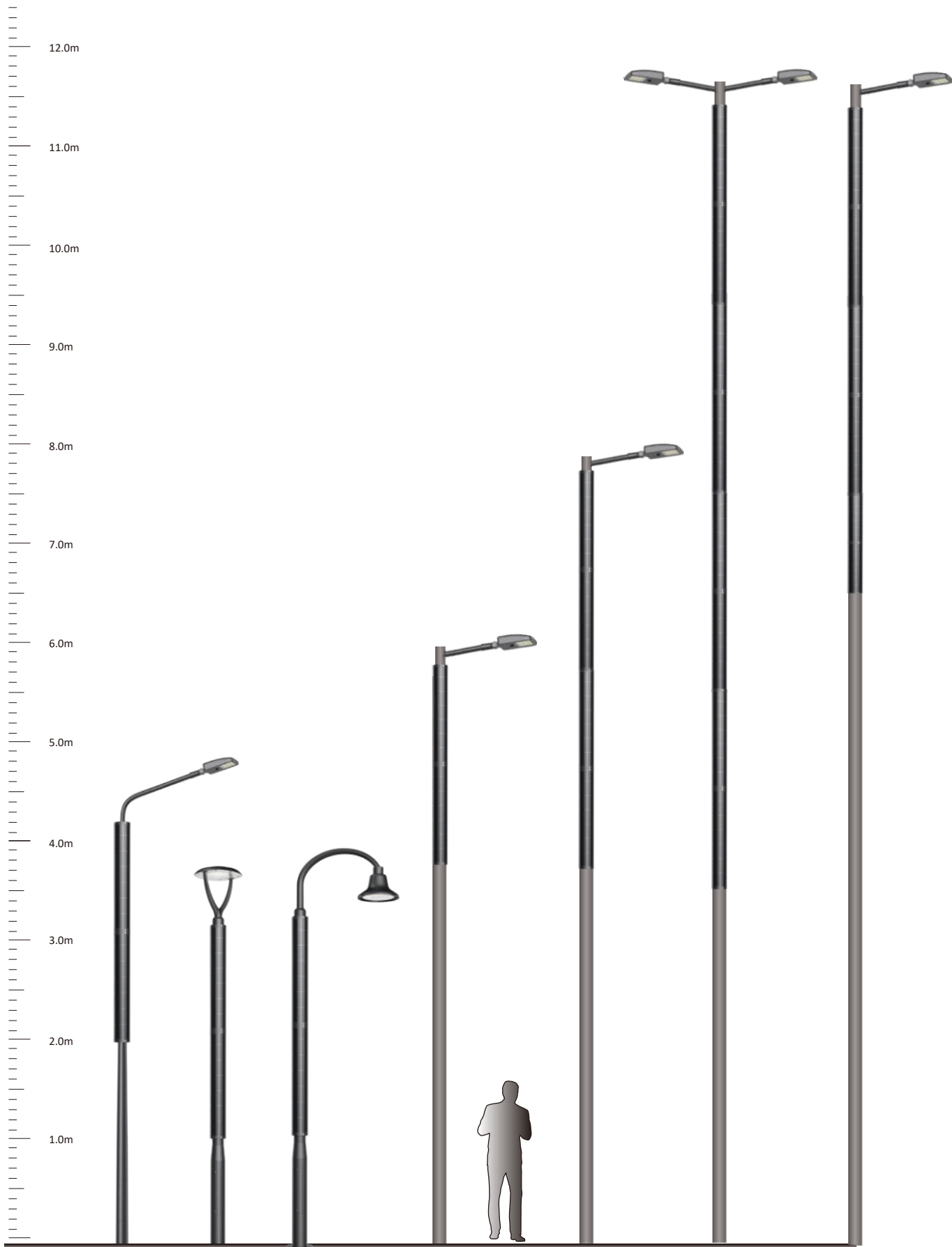
### Easy to Clean

Less dust will fall on surface than regular solar panel. Worker can clean it easily standing on ground with a long handle brush. no need to higher work efficiency and less maintenance cost.



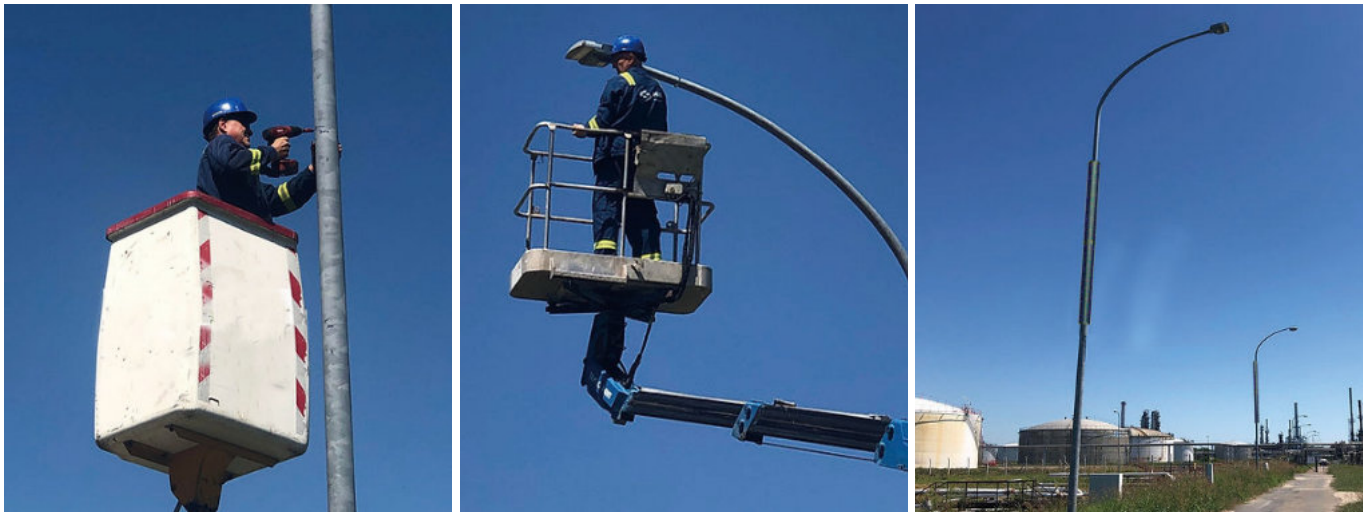
### Design Aesthetics

Vertical solar poles has a nice look with aesthetic design. It is good looking than put big regular solar panel on the top of pole.



## Advantages of retrofit traditional street light into solar

Converting traditional street lights into vertical solar street lights offers several advantages, notably the elimination of the need to replace lamp posts, thereby reducing replacement costs. The existing lamp post structure can be retained and utilized, requiring only the installation of the vertical solar street light's solar charging system onto the current lamp post. This conversion not only saves the cost of replacing lamp posts but also reduces the time and labor required for construction and maintenance. Furthermore, as there is no need for rewiring or altering the infrastructure of the street lights, the conversion process for vertical solar street lights is relatively simple and minimally disruptive to the surrounding environment. Therefore, by converting traditional street lights into vertical solar street lights, the upgrade and energy transition of street lighting can be achieved in a more economical and efficient manner.



### Cost Efficiency:

Utilizing existing lamp posts eliminates the need for costly replacements, reducing overall project expenses.



### Minimal Disruption:

Without the requirement to remove or replace lamp posts, the conversion process minimizes disruption to existing infrastructure and urban life.



### Space Optimization:

Vertical installation of cylindrical solar panels maximizes energy generation within limited urban space, without requiring additional land or structures.



### Seamless Integration:

Cylindrical solar panels seamlessly integrate into the existing lamp post design, with batteries housed internally to maintain aesthetic appeal.



### Scalability and Flexibility

The modular design allows for the installation of multiple panels on a single lamp post, providing scalability and customization options for specific lighting needs and future expansions.



@ Dubai



@ Japan



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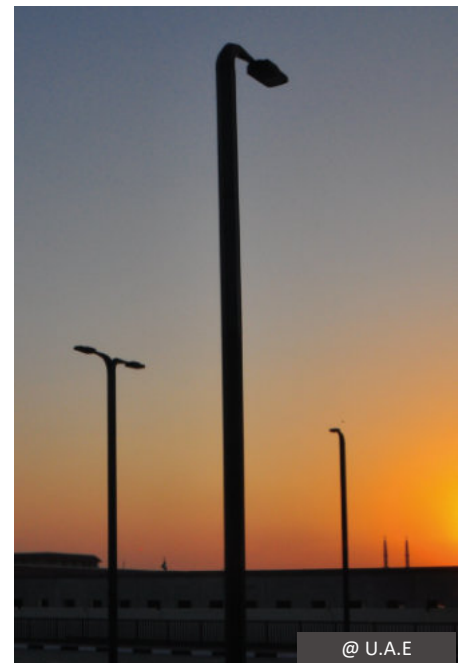
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