Designed with the commercial and industrial environment in mind.

SPECTRUM SERIES

COSMO SOLAR LIGHTING COLUMN

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SOLAR VISION
LIGHTING TECHNOLOGIES

SPECTRUM SERIES

COSMO
SOLAR LIGHTING COLUMN

TECHNICAL SPECIFICATIONS

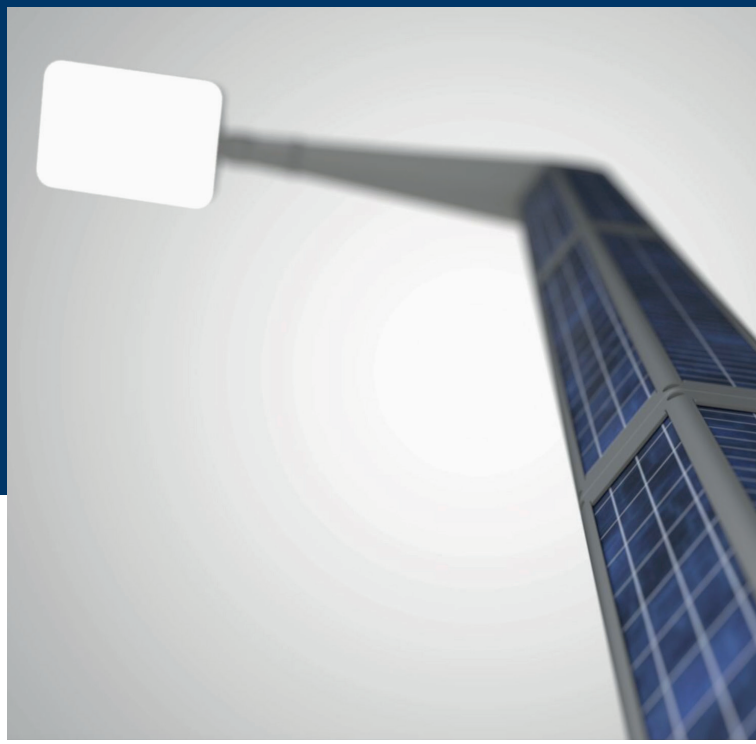
Product Type	Helios U20W	Helios U30W	Helios U50W
Fixture IP	IP67		
Material	Aluminium Die Casting		
LED Type	Philips Lumileds		
CCT Range	3000K / 4000K / 5000K / 6000K		
CRI	>81		
Luminous Flux	3200lm	4800lm	6800lm
Pole Height	5-6 Metres	6-8 Metres	6-10 Metres
Rated Power	20W	30W	50W
Luminaire Efficiency	160	160	136
Warranty	3 Years		
Certificates	CE - ROHS - IP67 - IK08 - LM79 - LM82 - TM21 - FCC - CB - IECEE		

Battery Pack	
Battery Type	Lithium Iron Phosphate - LiFeP04 (2000 Cycles)
Battery Capacity	12.8V 460WH 36AH
Battery Lifetime	>4000 Cycles DOD 50% or >2000 Cycles at 100% DOD
Charge Time	3 Hours

Control System	Programmable MPPT Controller / Hybrid Controller / Wireless Intelligent Control

Solar Charge	Q100	Q140	Q200
Structure	Aluminium Alloy		
Dimensions (mm)	228 x 200 x 1160	228 x 200 x 1560	228 x 200 x 2065
Pmax	100wp x2	140wp x2	200wp x2
Vmp	36V		
Solar Cell Efficiency	21.20%		
Cable	MC4 0.6 meter		
Operating Temp.	-30°C - 70°C		
Lifetime	25 Years		
Warranty	3 Years		
Certificates	CE - ROHS - FCC - IP67 - LM80 - COC - IK10 - LM79 - SABER - CB		

Controller	
Charge Mode	MPPT
System Voltage	12V
Efficiency	>98%
Setting Method	By Remote Control
Installation Method	Built In
Operating Temp.	-40°C - 80°C
IP Rating	IP68
Lighting Modes	100% Continuous Lighting / Energy Saving / Customised Modes



PRODUCT INFORMATION

Our Spectrum range offers you the ability to quickly and simply install new lighting or replace obsolete ones with the latest generation LED lamps powered by solar energy.

We can offer you a 100% solar powered column, completely independent of the grid, or alternatively you can have our hybrid version (combining solar and on-grid system). In the hybrid column once the battery has been discharged the grid (AC) will provide the necessary power until such time as the battery has recharged. With these different versions, our aim is to offer a varied solution for your projects and to be in a position to meet the different demands of customers with regard to their infrastructure.

Our Cosmo Tapered Lighting Column is equipped with advanced LED and photovoltaic technology.
The vertical design of the SOLAR WRAP® provides for very low maintenance, reducing the need for cleaning, which maximises yields at all times.

Our Spectrum range comes in four versions, entirely solar powered or hybrid, with the option of a single or double LED head.

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