

SOLAR LIGHT POLE

champ 8000 P200-215

PRELIMINARY DATA SHEET

A decorative, self-sufficient, maintenance-free solar light pole for architectural outdoor lighting applications such as squares and promenades.

Light source	10 high-efficiency LEDs
Max. LED power	81 Watt
SOP Solar Operating Power	43 Watt
Max. luminous flux @ SOP	7,050 lm
Luminaire efficacy	165 lm/W
Nominal power of solar cells	205 Watt peak
SPR System Power Ratio	5
Autonomy	3 nights (36h)
Pole height	6.05 m
Light spot height	4.0 m

**Austrian
state prize for
industrial design**



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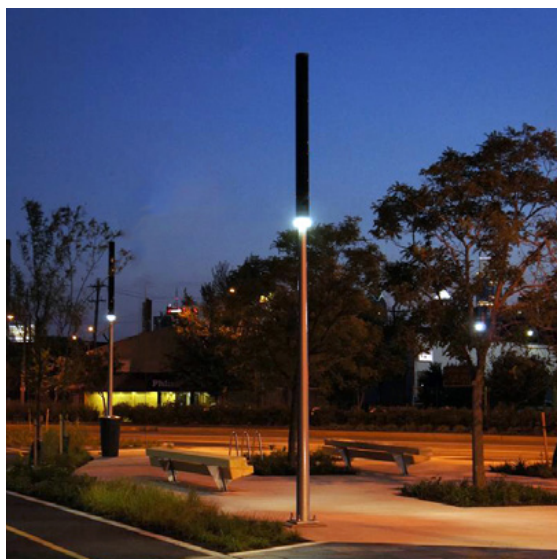
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Royal Abbey of Santa Maria de Poblet, Catalonia, Spain
Solar lighting in a sensitive cultural environment of a UNESCO world heritage site.



Oceans Garden, Kobe City, Japan



Philadelphia, USA

LUMINAIRE

SOP Solar Operating Power	43 Watt
Max. luminous flux @ SOP	7,050 lm
Luminaire efficacy	165 lm/W
Correlated Colour Temperature (CCT)	5,000 K (cool white) 3,000 K (warm white) - optionally 4,000 K (neutral white) - optionally
Colour rendering index (CRI)	≥ 70 ≥ 80 - optionally
Life time of LEDs (L70/B10)	> 90,000 hours
Material (housing)	Aluminium
Finishing (housing)	Powder-coated
Weight	2.7 kg

POLE

Wind class acc. EN 40	45 m/s
Pole height	6.05 m
Light spot height	4.0 m
Pole diameter	184 / 112 mm (6.05 m pole)
Pole weight	125 kg (6.05 m pole)
Foundation	Flange plate Sleeve foundation - optionally
Material	Steel
Finishing	Hot-dip galvanized Paint-coated RAL 9006 (white aluminium) Powder-coating, other RAL colours - optionally
Corrosion class	C4

POWER TUBE P200-215

Technology	Silicon solar cells
Number of solar cells (array)	48 pcs (4 strings x 12 pcs / string)
Nominal power of solar cells	205 Watt peak
Dimensions (mm)	L1,997 x Ø215
Weight	17.0 kg

POWER CONTROL

Programmable microcontroller	✓
Controller location	Pole
Dynamic light profile	Customer-specific
Hybrid power supply (AC back-up)	Optionally

BATTERY

Technology	VRLA, cycle type	
Location	earth pit	inside pole
Capacity	129 Ah / 12 V	6 x 13 Ah / 12 V (21 h autonomy)
Dimensions (mm)	L407 x W177 x H225	6 pcs: L151 x W98 x H95
Weight	35.0 kg	25.2 kg

SYSTEM

SPR System Power Ratio	5
Autonomy	3 nights (36h)

STANDARDS AND COMPLIANCES

ISO	ISO 9001-2015
Illumination	According to EN 13201, IESNA RP-8-00
Light pole	EN 40
Power tube impact protection rating	IK06
Photovoltaics	EN 61215 (adapted)
Temperature range	-40 °C to +50 °C (battery in earth pit)
CE	✓
RoHS	✓