



SOLAR LIGHT POLE

mira 16000 twin P800-215

PRELIMINARY DATA SHEET

Self-sufficient and maintenance-free solar light pole with award winning, protected design, ideal for outdoor residential and municipal lighting.

Light source	2x 20 high-efficiency LEDs
Max. LED power	2 x 238 Watt
SOP Solar operating power	2 x 79 Watt
Max. luminous flux @ SOP	2x 12,300 lm
Luminaire efficacy	155 lm/W
Nominal power of solar cells	205 Watt peak
SPR System Power Ratio	5
Autonomy	3 nights (36h)
Pole height	10.0 / 12.0 / 14.0 m
Light spot height	9.75 / 11.75 / 13.75 m

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Tamar, Hong Kong



Vienna, Austria



Doha, Qatar

LUMINAIRE

SOP Solar Operating Power	2 x 79 Watt
Max. luminous flux @ SOP	2x 12,300 lm
Luminaire efficacy	155 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
Life time of LEDs (L70/B10)	> 90,000 hours
Material (housing)	Aluminium
Finishing (housing)	Powder-coated
Weight	13 kg

POLE, PIPE BEND

Wind class acc. EN 40	45 m/s
Pole height	10.0 / 12.0 / 14.0 m
Light spot height	9.75 / 11.75 / 13.75 m
Pole diameter	215 mm (10.0 m pole)
Pole weight	154 kg (10.0 m pole)
Boom angle	15 °
Pipe bend length	1,150 mm
Pipe bend weight	56.0 kg
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

4X 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
Capacity	474 Ah / 12 V
Dimensions (mm)	2 pcs: L522 x W240 x H223
Weight	130.0 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	✓