



SOLAR LIGHT POLE

mira 4000 **P100-160**

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	6 high-efficiency LEDs
Max. LED power	75 Watt
SOP Solar Operating Power	20 Watt
Max. luminous flux @ SOP	3,150 lm
Luminaire efficacy	160 lm/W
Nominal power of solar cells	115 Watt peak
SPR System Power Ratio	5
Autonomy	3 nights (36h)
Pole height	4.0 / 5.0 / 6.0 m
Light spot height	3.8 / 4.8 / 5.8 m

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Tamar, Hong Kong



Vienna, Austria



Doha, Qatar

LUMINAIRE

SOP Solar Operating Power	20 Watt
Max. luminous flux @ SOP	3,150 lm
Luminaire efficacy	160 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	5.5 kg

POLE, PIPE BEND

Wind class acc. EN 40	45 m/s
Pole height	4.0 / 5.0 / 6.0 m
Light spot height	3.8 / 4.8 / 5.8 m
Pole diameter	160 mm (4.0 m pole)
Pole weight	65 kg (4.0 m pole)
Boom angle	15 °
Pipe bend length	800 mm
Pipe bend weight	13.0 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

POWER TUBE P100-160

Technology	Silicon solar cells
Number of solar cells (array)	27 pcs (3 strings x 9 pcs / string)
Nominal power of solar cells	115 Watt peak
Dimensions (mm)	L1,520 x Ø160
Weight	7.0 kg

POWER CONTROL

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

BATTERY

Technology	VRLA, cycle type	
Location	earth pit	inside pole
Capacity	60 Ah / 12 V	6 x 9 Ah / 12 V (32 h autonomy)
Dimensions (mm)	L260 x W160 x H178	6 pcs: L151 x W65 x H94
Weight	20.0 kg	15.3 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	✓