



SOLAR LIGHT POLE

antares 16000 twin P800-215

PRELIMINARY DATA SHEET

A self-sufficient, maintenance-free, high-power solar light pole for professional outdoor lighting applications such as highways.

Light source	2x 20 high-efficiency LEDs
Max. LED power	2 x 238 Watt
SOP Solar operating power	2 x 80 Watt
Max. luminous flux @ SOP	2x 13,000 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	10.0 / 12.0 / 14.0 m
Light spot height	10.1 / 12.1 / 14.1 m

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Ghayathi Highway, Abu Dhabi, U.A.E.
Worldwide first 100 % solar and 100% off-grid highway lighting



Al Amal Hospital, Dubai, U.A.E.



Varazdinske Toplice, Croatia

LUMINAIRE

SOP Solar Operating Power	2 x 80 Watt
Max. luminous flux @ SOP	2x 13,000 lm
Luminaire efficacy	165 lm/W
LED 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	Aluminium
Finishing	Powder-coated
Weight	10.5 kg

POLE, BRACKET

Wind class acc. EN 40	45 m/s
Pole height	10.0 / 12.0 / 14.0 m
Light spot height	10.1 / 12.1 / 14.1 m
Pole diameter	152 mm (10.0 m pole)
Pole weight	162 kg (10.0 m pole)
Boom angle	0 °
Bracket length	2,500 mm
Bracket weight	48.0 kg
Foundation	Flange plate Sleeve foundation - optionally
Material	Steel
Finishing	Hot-dip galvanized Paint or powder-coating in RAL colours - optionally
Corrosion class	C4
Other pole heights, bracket lengths and boom angles optionally.	

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	Luminaire
Dynamic light profile	Customer-specific
Hybrid power supply (AC back-up)	Optionally

BATTERY

Technology	VRLA, cycle type
Location	earth pit
Capacity	480 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	✓