



## SOLAR LIGHT POLE

# antares 16000 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	<b>20 high-efficiency LEDs</b>
Max. LED power	<b>238 Watt</b>
SOP Solar operating power	<b>80 Watt</b>
Max. luminous flux @ SOP	<b>13,000 lm</b>
Luminaire efficacy	<b>165 lm/W</b>
Nominal power of solar cells	<b>205 Watt peak</b>
SPR System Power Ratio	<b>10</b>
Autonomy	<b>3 nights (36h)</b>
Pole height	<b>10.0 / 12.0 / 14.0 m</b>
Light spot height	<b>10.1 / 12.1 / 14.1 m</b>

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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	<b>80 Watt</b>
Max. luminous flux @ SOP	<b>13,000 lm</b>
Luminaire efficacy	<b>165 lm/W</b>
LED Correlated Colour Temperature (CCT)	<b>5,000 K (cool white)</b> 3,000 K (warm white) - optionally 4,000 K (neutral white) - optionally
Colour rendering index (CRI)	<b>≥ 70</b> ≥ 80 - optionally
Life time of LEDs (L70/B10)	<b>&gt; 90,000 hours</b>
Material	<b>Aluminium</b>
Finishing	<b>Powder-coated</b>
Weight	<b>10.5 kg</b>

## POLE, BRACKET

Wind class acc. EN 40	<b>45 m/s</b>
Pole height	<b>10.0 / 12.0 / 14.0 m</b>
Light spot height	<b>10.1 / 12.1 / 14.1 m</b>
Pole diameter	<b>152 mm (10.0 m pole)</b>
Pole weight	<b>162 kg (10.0 m pole)</b>
Boom angle	<b>0 °</b>
Bracket length	<b>2,500 mm</b>
Bracket weight	<b>27.0 kg</b>
Foundation	<b>Flange plate</b> Sleeve foundation - optionally
Material	<b>Steel</b>
Finishing	<b>Hot-dip galvanized</b> Paint or powder-coating in RAL colours - optionally
Corrosion class	<b>C4</b>
Other pole heights, bracket lengths and boom angles optionally.	

## 4X POWER TUBE P200-215

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

## POWER CONTROL

Programmable microcontroller	<b>✓</b>
Controller location	<b>Earth pit</b>
Dynamic light profile	<b>Customer-specific</b>
Hybrid power supply (AC back-up)	<b>Optionally</b>

## BATTERY

Technology	<b>VRLA, cycle type</b>
Location	<b>earth pit</b>
Capacity	<b>240 Ah / 12 V</b>
Dimensions (mm)	<b>2 pcs: L522 x W240 x H223</b>
Weight	<b>130.0 kg</b>

## SYSTEM

SPR System Power Ratio	<b>10</b>
Autonomy	<b>3 nights (36h)</b>

## STANDARDS AND COMPLIANCES

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