



## SOLAR LIGHT POLE

# antares 8000 P200-215

### PRELIMINARY DATA SHEET

**A self-sufficient, maintenance-free solar light pole for professional outdoor lighting applications such as main streets and highways.**

Light source	<b>10 high-efficiency LEDs</b>
Max. LED power	<b>123 Watt</b>
SOP Solar operating power	<b>40 Watt</b>
Max. luminous flux @ SOP	<b>6,450 lm</b>
Luminaire efficacy	<b>160 lm/W</b>
Nominal power of solar cells	<b>205 Watt peak</b>
SPR System Power Ratio	<b>5</b>
Autonomy	<b>3 nights (36h)</b>
Pole height	<b>8.0 / 10.0 / 12.0 m</b>
Light spot height	<b>8.1 / 10.1 / 12.1 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>40 Watt</b>
Max. luminous flux @ SOP	<b>6,450 lm</b>
Luminaire efficacy	<b>160 lm/W</b>
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 (housing)	<b>Aluminium</b>
Finishing (housing)	<b>Powder-coated</b>
Weight	<b>4.3 kg</b>

## POLE, BRACKET

Wind class acc. EN 40	<b>45 m/s</b>
Pole height	<b>8.0 / 10.0 / 12.0 m</b>
Light spot height	<b>8.1 / 10.1 / 12.1 m</b>
Pole diameter	<b>140 mm (8.0 m pole)</b>
Pole weight	<b>117 kg (8.0 m pole)</b>
Boom angle	<b>0 °</b>
Bracket length	<b>2,000 mm</b>
Bracket weight	<b>22.0 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.	

## 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>Luminaire</b> Pole - optionally
Dynamic light profile	<b>Customer-specific</b>
Motion detector	<b>Optionally</b>
Hybrid power supply (AC back-up)	<b>Optionally</b>

## BATTERY

Technology	<b>VRLA, cycle type</b>
Location	<b>earth pit</b>
Capacity	<b>120 Ah / 12 V</b>
Dimensions (mm)	<b>L407 x W177 x H225</b>
Weight	<b>35.0 kg</b>

## SYSTEM

SPR System Power Ratio	<b>5</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>