



## SOLAR LIGHT COLUMN

# columba 12000 P360-270

### PRELIMINARY DATA SHEET

**High-end solar light column with unique luminaire shell-design for architectural lighting applications with highest design expectations. Full solar supply, no grid required.**

Light source	<b>2x 8 high-efficiency LEDs</b>
Max. LED power	<b>2 x 99 Watt</b>
SOP Solar Operating Power	<b>2 x 35 Watt</b>
Max. luminous flux @ SOP	<b>2x 5,700 lm</b>
Luminaire efficacy	<b>165 lm/W</b>
Nominal power of solar cells	<b>192 Watt peak</b>
SPR System Power Ratio	<b>5</b>
Autonomy	<b>3 nights (36h)</b>
Pole height	<b>10.0 / 12.0 / 14.0 m</b>
Light spot height	<b>9.7 / 11.7 / 13.7m</b>

© DT INTERNATIONAL SA 2019  
11 Rue d'Italie, CH-1204 Geneva, Switzerland  
[www.dti-energies.com](http://www.dti-energies.com) / [info@dti-energies.com](mailto:info@dti-energies.com) / +41 22 752 50 41

TECHNICAL DATA SUBJECT TO CHANGE WITHOUT NOTICE.  
MISPRINTS RESERVED. JANUARY 2019



## LUMINAIRE

SOP Solar Operating Power	<b>2 x 35 Watt</b>
Max. luminous flux @ SOP	<b>2x 5,700lm</b>
Luminaire efficacy	<b>165 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>
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>6.5 kg</b>

## COLUMN

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>9.7 / 11.7 / 13.7m</b>
Pole diameter	<b>270 mm (10.0 m pole)</b>
Pole weight	<b>267 kg (10.0 m pole)</b>
Foundation	<b>Flange plate</b>
Material	<b>Steel</b>
Finishing	<b>Hot-dip galvanized Paint-coated RAL 9005 (jet black)</b> Powder-coating, other RAL colours - optionally
Corrosion class	<b>C4</b>

## 2X POWER TUBE P180-270

Technology	<b>Silicon solar cells</b>
Number of solar cells (array)	<b>45 pcs (5 strings x 9 pcs / string)</b>
Nominal power of solar cells	<b>192 Watt peak</b>
Dimensions (mm)	<b>L1,520 x Ø270</b>
Weight	<b>20.5 kg</b>

## POWER CONTROL

Programmable microcontroller	<b>✓</b>
Controller location	<b>Pole</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>210 Ah / 12 V</b>
Dimensions (mm)	<b>L522 x W240 x H219</b>
Weight	<b>60.0 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>