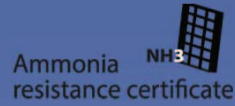


# WNS 255 P60

## Polycrystalline photovoltaic module



**cobat**



### Electrical Data

### WNS 255 P60

|                             |           |                 |
|-----------------------------|-----------|-----------------|
| Maximum Power               | $P_{max}$ | 255 Wp          |
|                             | x         |                 |
| Nominal Voltage             | $V_{mp}$  | 30,55 V         |
|                             | p         |                 |
| Short circuit current       | $I_{sc}$  | 8,85 A          |
| Maximum power point current | $I_{mp}$  | 8,35 A          |
|                             | p         |                 |
| Open circuit voltage        | $V_{oc}$  | 38,3 V          |
| Module efficiency           | %         | 15,74%          |
| Performance Tolerance       | P         | 0Wp... + 5Wp    |
|                             | (Wp)      |                 |
| Nr of cells                 |           | 60 pcs          |
| Cells                       |           | Polycrystalline |

### Limit values

|   |           |               |
|---|-----------|---------------|
| Maximum system voltage SCII                       | ( $V_d$ ) | 1000 $V_{dc}$ |
|   | c)        |               |
| Maximum reverse current                           | (A)       | 15 A          |
| NOCT (800 W/m <sup>2</sup> , 20°C, AM 1.5, 1 m/s) | (°C)      | +42°C +/-2°C  |
|   | )         |               |

### Thermal characteristics

|                         |          |               |
|-------------------------|----------|---------------|
| Voltage                 | $V_{oc}$ | -0,34% / °C   |
| Current                 | $I_{sc}$ | +0,05% / °C   |
| Output                  | $P_{mp}$ | -0,41% / °C   |
|                         | p        |               |
| Load/dynamic load       | $P_a$    | 5400 Pa       |
| Number of bypass diodes | N.       | 3             |
| Operating range         | N.       | -40°C a +85°C |

### Physical Characteristics

|                        |   |                    |
|------------------------|---|--------------------|
| Dimensions (L x W x H) | (m<br>m)  | 1640 x 992 x 38 mm |
| Weight                 | (Kg<br>totali)  | 18 Kg              |
| Junction Box           | Protection degree IP67 - 3 bypass diodes - MC4 connector compatible |                    |
| Cables                 | Conductor section 4 mm <sup>2</sup> , length 1 m (MC4)              |                    |

### Irradiance Dependence

|                 | 1000 W/m <sup>2</sup> | 800 W/m <sup>2</sup> | 600 W/m <sup>2</sup> | 400 W/m <sup>2</sup> |
|-----------------|-----------------------|----------------------|----------------------|----------------------|
| I <sub>sc</sub> | 0 %                   | -19,6 %              | -39,5 %              | -59,2 %              |
| V <sub>oc</sub> | 0 %                   | -1,38 %              | -3,05 %              | -5,9 %               |

### General data

|           |   |
|-----------|---|
| Frontside | Low-reflection 3,2 mm tempered glass                          |
| Frame     | 38 mm silver anodized alluminium frame                        |
| Cells     | 60 polycrystalline high efficiency cells 156 mm x 156 mm (6") |
| Elements  | Made in EU elements (glass, frame, cables...)                 |

