# Datasheet

offgridtec
autarkic energy for everyday

## Offgridtec OLP V3 solar module shingle technology PERC

### Characteristics

- Unique module design (overlapping wafer design).
- Cell efficiency over 22,6 % through optimal area utilization and reduced power losses.
- Modern, homogeneous optics without visible conductor tracks.
- Innovative PERC technology for improved absorption at longer wavelengths.
- Reduced loss with partial shading.
- Integrated bypass-diodes



| Specification | OLP V3 10W | OLP V3 30W | OLP V3 100W | OLP V3 150W | OLP V3 180W |
|---|---|---|---|---|---|
| Article number | 3-01-025507 | 3-01-025508 | 3-01-025509 | 3-01-025510 | 3-01-25511 |
| EAN | 4262517653094 | 4262517653100 | 4262517653117 | 4262517653124 | 4262517653131 |
| Nominal peak power* (WP) | 10 W | 30 W | 100 W | 150 W | 180 W |
| Nominal voltage (V) | 22,3 V | 29,8 V | 24,8 V | 24,8 V | 29,8 V |
| Nominal current (A) | 0,45 A | 1,01 A | 4,03 A | 6,05 A | 6,05 A |
| Open circuit voltage (Voc) | 26,34 V | 35,12 V | 29,26 V | 29,26 V | 34,82 V |
| Short circuit current (Isc) | 0,47 A | 1,07 A | 4,27 A | 6,41 A | 6,41 A |
| Max system voltage | 600 V DC | 600 V DC | 600 V DC | 1000 V DC | 1000 V DC |

*Measured under Standard Test Conditions STC (1000 W/m$^2$; spectrum AM 1.5; Cell temperature 25 °C)

| Measurements | OLP V3 10W | OLP V3 30W | OLP V3 100W | OLP V3 150W | OLP V3 180W |
|---|---|---|---|---|---|
| Cells per module | 4×8 | 3×14 | 2×34 | 3×34 | 3×41 |
| Cells size (mm) | 52.5×33.7 | 105×33.7 | 210×33.7 | 210×33.7 | 210×33.7 |
| Module size (mm) | 250×310×25 | 350×515×25 | 450×1195×35 | 670×1195×35 | 670×1435×35 |
| Weight (kg) | 0.98 | 1.96 | 6.28 | 9.8 | 10.42 |

| Thermal attributes | |
|---|---|
| NOCT | 45 +/-2 °C |
| Voltage temp. coefficient | -0.36 %/°C |
| Current temp. coefficient | +0.07 %/°C |
| Power temp. coefficient | -0.38 %/°C |

| Additional specification | |
|---|---|
| Power tolerance | +/-3 % |
| Cell Conversion efficiency | 22,68 % |
| Operating temperature: | -40 to +85 °C |

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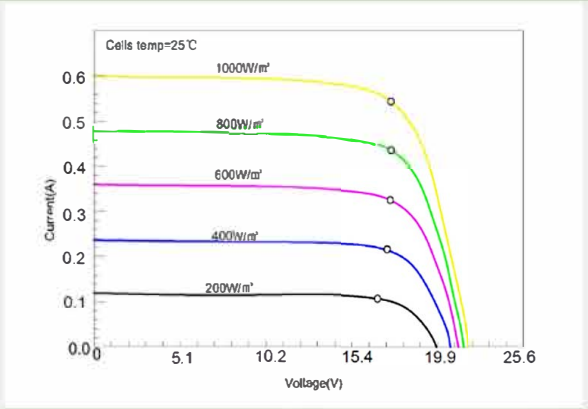
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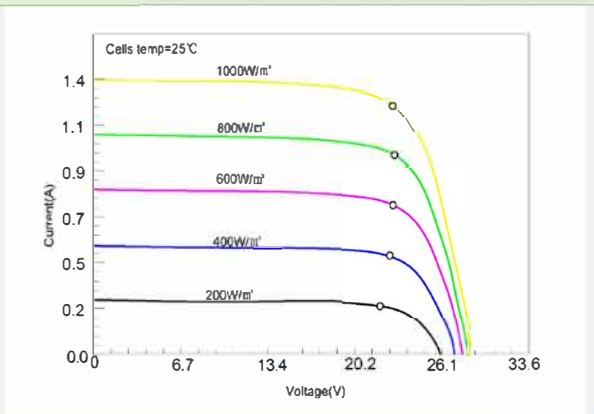
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### U-I-Diagram

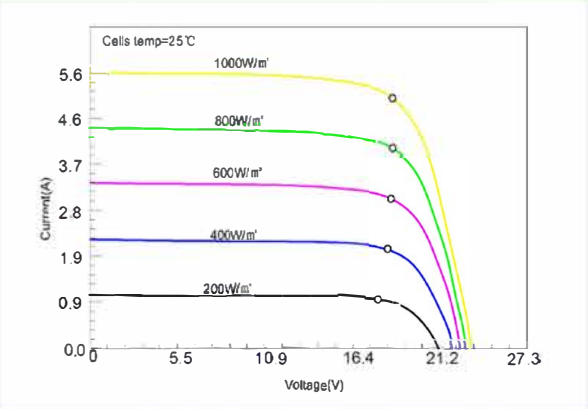
**OLP V3 10W – 3-01-025507**



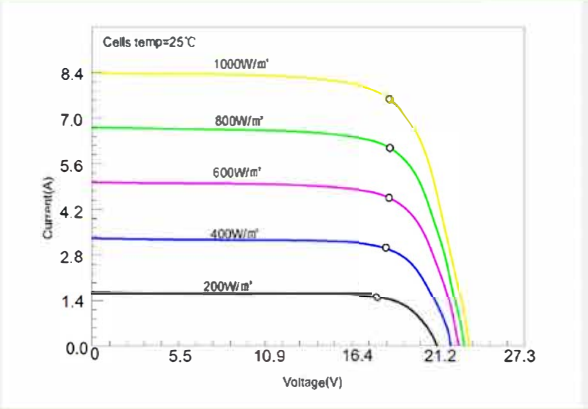

**OLP V3 30W – 3-01-025508**



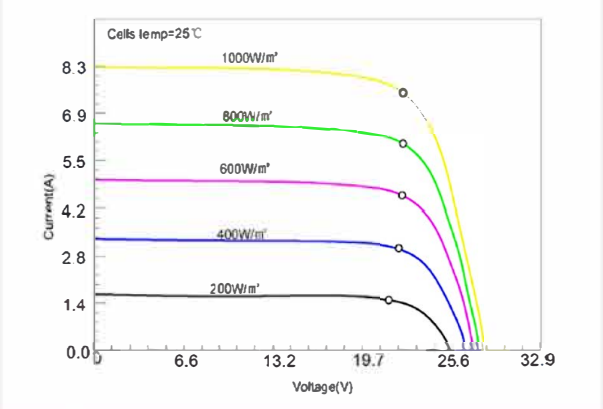

**OLP V3 100W – 3-01-025509**




**OLP V3 150W - 3-01-025510**




**OLP V3 180W – 3-01-025511**




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