

60 cells

№1 HJT LARGE-SCALE PRODUCTION FACILITY IN EUROPE

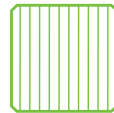
HVL-315/HJT  
HVL-320/HJT  
HVL-325/HJT

## HETEROJUNCTION PV MODULE



### HJT technology

cell efficiency – up to 23,5 %  
module efficiency – up to 19,4 %



### Cutting edge PV technology

Most advanced PV cell technology combined with SmartWire optimized contact grid



### High output

in hot climate due to the low temperature coefficient and low light conditions due to shading reduction capacity of SWCT



### Long life cycle

high reliability backed by 10-year product and 25-year performance warranty



### Efficient space utilization for 1kWp of HJT modules



### Low degradation

N-type wafer based HJT cell boosts extra low light induced (LID) and close to zero potential induced degradation (PID)



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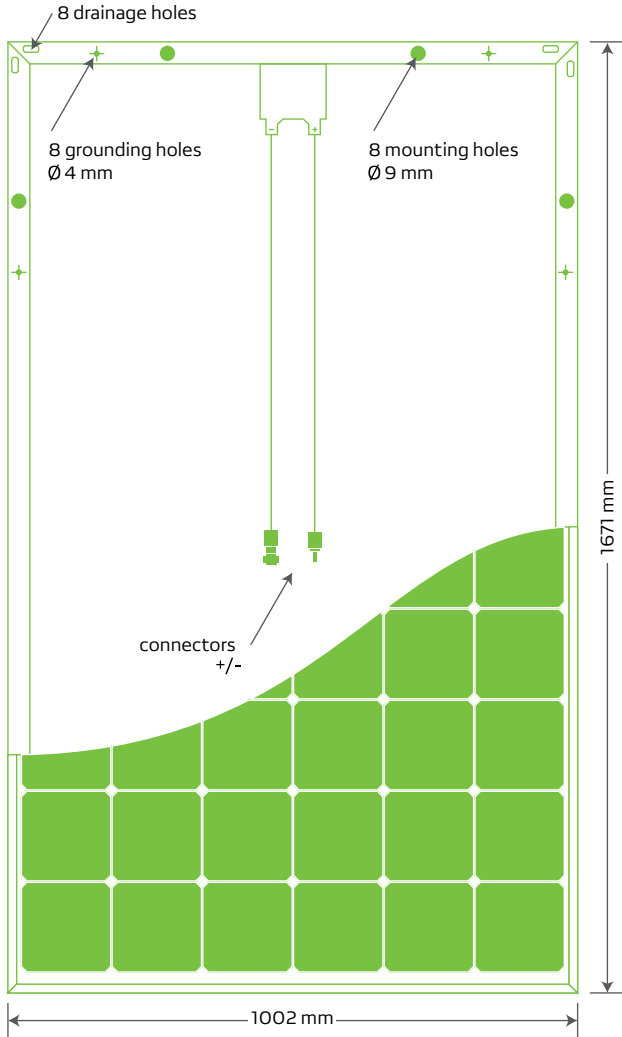
Hevel Group is a reputable and reliable PV cells and modules manufacturer with 10-year experience:

- WORLD'S LEADING IN HOUSE RESEARCH AND DEVELOPMENT IN HJT
- LARGEST INDUSTRIAL HJT PRODUCTION\* IN EUROPE
- PV EQUIPMENT AND MATERIALS SOURCED FROM TOP EUROPEAN SUPPLIERS

\* Manufacturing system complies with ISO 9001:2015 and ISO 14001:2015

# 60 cells

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### ELECTRICAL PARAMETERS\* AT STANDARD TEST CONDITIONS (STC)

|                                       |       |       |       |
|---------------------------------------|-------|-------|-------|
| Power output ( $P_{max}$ ), W         | 315   | 320   | 325   |
| Power output sorting, W               | +5    |       |       |
| Module efficiency, %                  | 18,9  | 19,1  | 19,4  |
| Current at $P_{max}$ ( $I_{mpp}$ ), A | 8,74  | 8,83  | 8,86  |
| Voltage at $P_{max}$ ( $V_{mpp}$ ), V | 36,07 | 36,28 | 36,74 |
| Short-circuit current ( $I_{sc}$ ), A | 9,26  | 9,28  | 9,29  |
| Open-circuit voltage ( $V_{oc}$ ), V  | 43,88 | 43,97 | 44,08 |

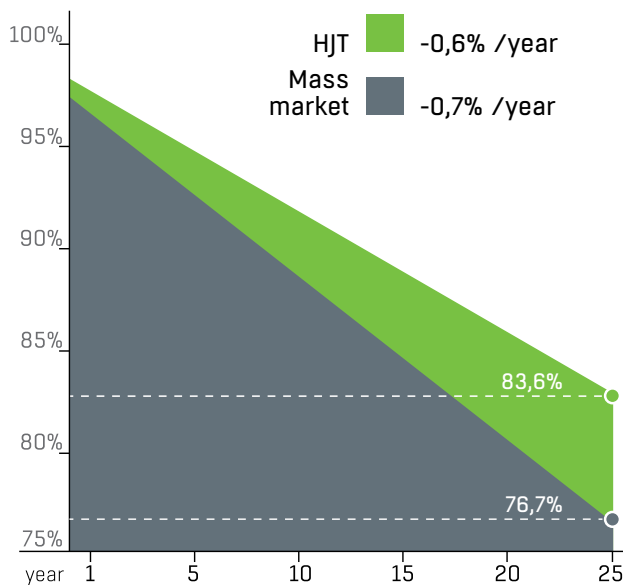
### MAIN CHARACTERISTICS

|                                        |                |
|----------------------------------------|----------------|
| Maximum system voltage, V              | 1000/1500      |
| Fire resistance rating                 | C              |
| Weight max, kg                         | 19             |
| Cable connector type                   | MC4 compatible |
| Cable length, m                        | 1              |
| Max. static load front (e.g. snow), Pa | 3600           |
| Max. static load back (e.g. wind), Pa  | 2530           |

### MODULE DIMENSIONS

| Length    | Height    | Thickness |
|-----------|-----------|-----------|
| 1671±3 mm | 1002±3 mm | 35±0,5 mm |

### LINEAR PERFORMANCE WARRANTY



### TEMPERATURE CHARACTERISTICS

|                                               |           |
|-----------------------------------------------|-----------|
| Operating temperature, °C                     | -40 — +85 |
| Temperature coefficient $V_{oc}$ , %/°C       | -0,249    |
| Temperature coefficient $I_{sc}$ , %/°C       | 0,037     |
| Temperature coefficient $P_{max}$ , %/°C      | -0,311    |
| Nominal operating cell temperature (NOCT), °C | 38,8      |

### 25-YEAR PERFORMANCE WARRANTY

| Guaranteed power output of the PV module, % from the starting |                    |
|---------------------------------------------------------------|--------------------|
| in 1 year, %                                                  | not less than 98   |
| in 25 years, %                                                | not less than 83,6 |

\*The given values are based on production average and are for information purposes only.