



Smart
connections.

Data sheet

PIKO 3.0

3.0

Technical data PIKO 3.0



- Single-phase feed-in
- Transformerless converting
- Integrated electronic DC switch
- Broad input voltage range
- Standard integrated communication package with data logger, web server, solar portal and the following interfaces: 2x Ethernet, RS485, S0, 4x analogue inputs (e.g. for ripple control receivers or PIKO Sensor)
- Integrated switch contact for self-consumption optimisation
- Smart Home-ready, EEBus 1.0-ready

Input side (DC)

| | | |
|---|-----|------|
| Max. PV power | kWp | 4.3 |
| Rated input voltage ($U_{DC,r}$) | V | 400 |
| Max. input voltage ($U_{DC,max}$) | V | 900 |
| Min. input voltage ($U_{DC,min}$) | V | 160 |
| Start input voltage ($U_{DC,start}$) | V | 180 |
| Max. MPP voltage ($U_{MPP,max}$) | V | 730 |
| Min. MPP voltage with DC rated output in single-tracker operation ($U_{MPP,min}$) | V | 270 |
| Min. MPP voltage with DC rated output in dual-tracker or parallel operation ($U_{MPP,min}$) | | - |
| Max. input current ($I_{DC,max}$) | A | 12.5 |
| Max. input current with parallel connection | A | - |
| Number of DC inputs | | 1 |
| Number of independent MPP trackers | | 1 |

Output side (AC)

| | | |
|---|-----|------------------|
| Rated output, $\cos \varphi = 1$ ($P_{AC,r}$) | kW | 3 |
| Max. output apparent power $\cos \varphi, adj$ | kVA | 3 |
| Max. output voltage ($U_{AC,max}$) | V | 264.5 |
| Min. output voltage ($U_{AC,min}$) | V | 184 |
| Rated output current | A | 13 |
| Max. output current ($I_{AC,max}$) | A | 13.7 |
| Short-circuit current (peak) | A | 26.4 |
| Grid connection | | 1/N/PE, AC, 230V |
| Rated frequency (f_r) | Hz | 50 |
| Max. grid frequency (f_{max}) | Hz | 51,5 |
| Min. grid frequency (f_{min}) | Hz | 47,5 |
| Setting range of the power factor $\cos \varphi_{AC,r}$ | | 0.9...1...0.9 |
| Power factor for rated power ($\cos \varphi_{AC,r}$) | | 1 |
| Max. total harmonic distortion | % | ≤ 3 |

Device properties

| | | |
|--|---|-----|
| Max. total night-time consumption (own requirements standby) | W | 1.7 |
| Max. night-time consumption of communication board | W | 1.6 |

Degree of efficiency

| | | |
|---------------------------|---|------|
| Max. efficiency | % | 96.2 |
| European efficiency rate | % | 95.5 |
| MPP adjustment efficiency | % | 99.9 |

Warranty

| | | |
|-------------------------------------|--|-------|
| Warranty (years) | | 5 |
| Warranty extension optional (years) | | 10/20 |

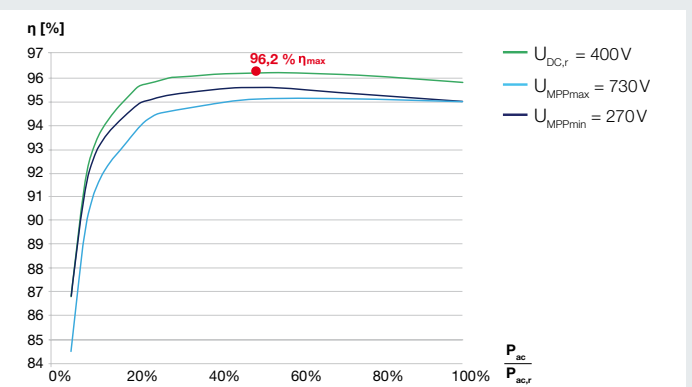
System data

| | | |
|---|-------------------|------------------------|
| Topology: Without galvanic separation - transformerless | | ✓ |
| Internal protection according to IEC 60529 | | IP 55 |
| Protection class according to IEC 62103 | | I |
| Surge category according to IEC 60664-1 Input side (PV generator) | | II |
| Surge category according to IEC 60664-1 Output side (grid connection) | | III |
| Degree of contamination | | 3 |
| Environmental category (outdoor installation) | | ✓ |
| Environmental category (interior installation) | | ✓ |
| UV resistance | | ✓ |
| Minimum cable cross-section of AC connecting line | mm ² | 1.5 |
| Minimum cable cross-section of DC connecting line | mm ² | 4 |
| Max. fusing on output side | | B16, C16 |
| Operator protection (EN 62109-2) | | RCCB type B |
| Electronic disconnection device integrated | | ✓ |
| Height | mm | 385 (15.2 in) |
| Width | mm | 500 (19.7 in) |
| Depth | mm | 222 (8.7 in) |
| Weight | kg | 22 (48.5 lb) |
| Cooling principle - convection | | ✓ |
| Cooling principle - regulated fans | | - |
| Max. air throughput | m ³ /h | - |
| Max. noise emission | dBA | < 33 |
| Ambient temperature | °C | -20...60 (-4...140 °F) |
| Max. installation altitude above sea level | m | 2000 (6562 ft) |
| Relative humidity (non-condensing) | % | 4...100 |
| Connection technology at input side - MC 4 | | ✓ |
| Connection technology at output side - spring-loaded terminal strip | | ✓ |

Interfaces

| | | |
|-----------------|--|---|
| Ethernet RJ45 | | 2 |
| RS485 | | 1 |
| S0 | | 1 |
| Analogue inputs | | 4 |

Efficiency rate characteristic curves PIKO 3.0



Smart connections.

Contact

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