



Smart
connections.

Data sheet

PIKO 5.5 10A

5.5

Technical data PIKO 5.5 10A



- Three-phase feed-in
- Transformerless topology
- Two independent MPP trackers
- Integrated circuit contact for self-consumption control
- Integrated electronic DC circuit breaker
- Integrated data logger and web server for system monitoring
- Various communication interfaces included as standard:
2 x Ethernet (integrated switch), RS485, S0, 4 x analogue inputs
- Graphic display with 3-button control

Input side (DC)

| | | |
|---|-----|-----|
| Max. PV power (cos $\varphi = 1$) | kWp | 6 |
| Rated input voltage ($U_{DC,r}$) | V | 680 |
| Max. input voltage ($U_{DC,max}$) | V | 950 |
| Min. input voltage ($U_{DC,min}$) | V | 180 |
| Start-up input voltage ($U_{DC,start}$) | V | 180 |
| Max. MPP voltage ($U_{MPP,max}$) | V | 850 |
| Min. MPP voltage for DC rated output in single tracker mode ($U_{MPP,min}$) | V | 600 |
| Min. MPP voltage for DC rated output in two-tracker mode ($U_{MPP,min}$) | V | 360 |
| Max. input current ($I_{DC,max}$) | A | 10 |
| Max. input current with parallel connection | A | - |
| Number of DC inputs | | 2 |
| Number of independent MPP trackers | | 2 |

Output side (AC)

| | | |
|--|-----|----------------------|
| Rated output, cos $\varphi = 1$ ($P_{AC,r}$) | kW | 5.5 (ES, PT: 5.0) |
| Max. output apparent power, cos $\varphi,_{adj}$ | kVA | 5.5 |
| Max. output voltage ($U_{AC,max}$) | V | 264.5 |
| Min. output voltage ($U_{AC,min}$) | V | 184 |
| Rated output current | A | 7 |
| Max. output current ($I_{AC,max}$) | A | 8 |
| Short-circuit current | A | 10,2 |
| Grid connection | | 3/N/PE, AC, 400V |
| 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 $\varphi_{AC,r}$ | | 0,90...1...0,90 |
| 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 | 2.7 |
| Max. night-time consumption of communication board | W | 1.7 |

Efficiency

| | | |
|---------------------------|---|------|
| Max. efficiency | % | 96.2 |
| European efficiency | % | 95.7 |
| MPP adjustment efficiency | % | 99.9 |

Warranty

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

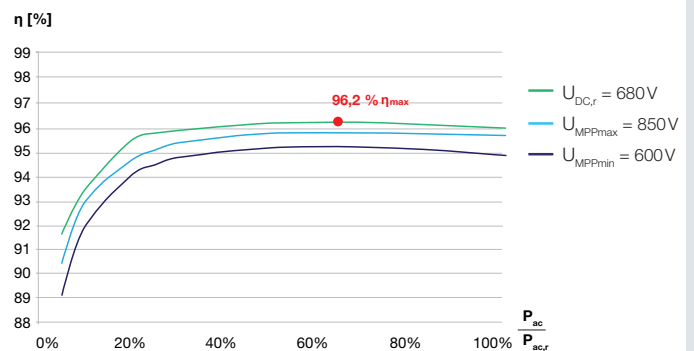
System data

| | | |
|---|-------------------|------------------------|
| Topology: Without galvanic separation - transformerless | | ✓ |
| Internal protection according to IEC 60529 | | IP 55 |
| Protective class according to IEC 62103 | | I |
| Overvoltage category according to IEC 60664-1 Input side (PV generator) | | II |
| Overvoltage 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 | 2,5 |
| Minimum cable cross-section of DC connecting line | mm ² | 4 |
| Min. fusing on output side | | B16, C16 |
| Operator protection (EN 62109-2) | | RCCB Typ B |
| Electronic disconnection device integrated | | ✓ |
| Height | mm | 350 (13.78 in) |
| Width | mm | 420 (16.54 in) |
| Depth | mm | 211 (8.31 in) |
| Weight | kg | 21,1 (46.52 lb) |
| Cooling principle - convection | | - |
| Cooling principle - regulated fans | | ✓ |
| Max. air throughput | m ³ /h | 0 |
| Noise emission | dBA | 46 |
| Ambient temperature | °C | -20...60 (-4...140 °F) |
| Max. installation altitude above sea level | m | 2000 (6562 ft) |
| Humidity | % | 0...95 |
| 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 characteristics of PIKO 5.5 10A



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Contact

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