Technical Data PIKO 6.0 BA / 8.0 BA / 10 BA

- Charging controller and inverter in one casing
- Integrated energy management system
- Flexibly configurable in particular for new storage technologies
- Integrated communication and monitoring package
- 3 independent MPPT tracks
- Relay control; self-consumption; EEBus ready
- Visualization on the PIKO Solar App.

Input data (DC)

<table>
<thead>
<tr>
<th>Value</th>
<th>6.0 BA</th>
<th>8.0 BA</th>
<th>10 BA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. PV power kWp</td>
<td>6.6</td>
<td>8.8</td>
<td>11</td>
</tr>
<tr>
<td>Min. voltage battery input V</td>
<td>153</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. input voltage (UDCmax) V</td>
<td>950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start-up input voltage (UDCstart) V</td>
<td>180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. grid frequency (fmin) Hz</td>
<td>47.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. grid frequency (fmax) Hz</td>
<td>51.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. output voltage (UACmin) V</td>
<td>184</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. total harmonic distortion %</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output (UMPPmin) V</td>
<td>260</td>
<td>350</td>
<td>440</td>
</tr>
<tr>
<td>Maximum output apparent power, cosφ adj kVA</td>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Number of independent MPP trackers</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of DC inputs</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. input current with parallel connection A</td>
<td>24</td>
<td></td>
<td></td>
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<tr>
<td>Min. input voltage (UDCmin) V</td>
<td>180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. input current (IDCmax) A</td>
<td>12</td>
<td></td>
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<tr>
<td>Max. output current A</td>
<td>8.7</td>
<td>11.6</td>
<td>14.5</td>
</tr>
<tr>
<td>Rated output current A</td>
<td>8.7</td>
<td>11.6</td>
<td>14.5</td>
</tr>
</tbody>
</table>

Efficiency

- Efficiency inverter: 94.8% - 96.1%
- Standby consumption W: 2.3
- Warranty: 5 years
- Warranty extension: Optional (years) 10/20
- Low floor space requirement
- Compact and expandable within the first 18 months (modular concept), various performance categories

Calculation of the battery status

- Calculation of the battery status Charging status (SoC), ageing status (SoH)

Battery

- Battery type: HOPPECKE 12VOPzV blocsolar.power 70
- Battery technology: Maintenance-free, cycle-optimised lead-gel battery
- Total energy content (C10 2) kWh: 11.6
- Capacity (C100 2) Ah: 70
- Rated voltage V: 228
- Weight kg: 120
- Number of block batteries: 4

Technical Data PIKO Battery Li

- Compact and expandable within the first 18 months (modular concept), various performance categories
- Powerful and efficient
- Long life expectancy
- Meets the conditions of the KfW funding programmes "Renewable Energies – Storage"
- 3-level electronic protection against overcurrents
- Integrated battery management system
- Meets the requirements of the Security guideline for lithium ion batteries

Battery

- Battery type: HOPPECKE 12VOPzV blocsolar.power 70
- Battery technology: Maintenance-free, cycle-optimised lead-gel battery
- Total energy content (C10 2) kWh: 11.6
- Capacity (C100 2) Ah: 70
- Rated voltage V: 228
- Weight kg: 120
- Number of block batteries: 4

Technical Data PIKO Battery Pb

- Energy storage for photovoltaic direct consumption and optimization of operating costs
- High energy yields and long useful life
- Low floor space requirement
- Modular structure for easy installation
- Complete storage solution from one supplier
- Maintenance-free, battery technology
- Integrated battery management system
- Communication interface with PIKO BA
- Calculation of the battery status

Battery

- Battery type: HOPPECKE 12VOPzV blocsolar.power 70
- Battery technology: Maintenance-free, cycle-optimised lead-gel battery
- Total energy content (C10 2) kWh: 11.6
- Capacity (C100 2) Ah: 70
- Rated voltage V: 228
- Weight kg: 120
- Number of block batteries: 4
Technical Data PIKO BA Backup Unit

- Secure supply in case of power failure
- VDE-tested replacement power function
- Automatic switching to replacement power mode after approx. 30 sec.
- 3-phase power supply with real three-phase AC
- Suitable for consumers up to 2,200 W with PIKO Battery Pb
- Suitable for consumer between 2,400 - 4,700 W with PIKO Battery Li (depending on the number of the battery modules)
- Up to 18 hours of operation (with consumption of 500 W and fully charged battery)

Backup connection 3 / N / PE, AC, 400 V
AC connection 3 / N / PE, AC, 400 V
Consumer connection 3 / N / PE, AC, 400 V
Control line 2, AC, 230 V
Max. load A 63
Potential equalisation 1
Internal protection according to IEC 60529 IP 45
Protection class according to IEC 62103 II
Degree of contamination 3
Environmental category (interior installation) H

Secure supply in case of power failure
VDE-tested replacement power function
Automatic switching to replacement power mode after approx. 30 sec.
3-phase power supply with real three-phase AC
Suitable for consumers up to 2,200 W with PIKO Battery Pb
Suitable for consumer between 2,400 - 4,700 W with PIKO Battery Li (depending on the number of the battery modules)
Up to 18 hours of operation (with consumption of 500 W and fully charged battery)

Technical Data PIKO BA Sensor

- Registration of building consumption with analogue current measurement
- Easy installation due to assembly on top-hat rail according to DIN EN 60715

Sensor
Rated current, primary (Peak/RMS) A 50/35
Rated current, secondary A 1
Output load VA 1
Ext. current sensor transmission ratio 50:1
Accuracy class 1
Connected power kW 12
Height mm 90
Width mm 105
Depth mm 54
Max. line diameter mm 13.5

This manual is subject to technical changes and printing errors. You can find current information at www.kostal-solar-electric.com.

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