Leading the Industry in Solar Microinverter Technology

**YC1000-3**

Commercial Microinverter

- Single unit connects up to four modules
- 1000W Maximum AC output
- True 3-phase output
- ZigBee wireless communication and Free module-level monitoring
- Up to 48 solar modules (60 or 72-cell) can be linked in a single 20A circuit*

*Please see YC1000 user manual on specifics for 230/400VAC.

World’s first true 3-phase microinverter – only from APsystems

**WIRING SCHEMATIC**

The YC1000 is the industry’s first true 3-phase solar microinverter, handling commercial grid voltages of 230/400 with 1000 watts maximum output, ZigBee communication and an integrated ground. Each YC1000 supports up to 4 solar modules.

**DIMENSIONS**

- 4" (36.2mm)
- 6.7" (170mm)
- 10.2" (259mm)
- 11.4" (288.5mm)
- 18.1" (460mm)
- 9.5" (242mm)
## APsystems YC1000-3 Microinverter Datasheet

### Region
- All European and MEA countries

### Model
- YC1000-3

### Input Data (DC)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended PV Module Power (STC) Range</td>
<td>Up to 310 Wp (4 Module configuration)</td>
</tr>
<tr>
<td></td>
<td>Up to 360 Wp (3 Module configuration)</td>
</tr>
<tr>
<td>MPPT Voltage Range</td>
<td>16V-55V</td>
</tr>
<tr>
<td>Operation Voltage Range</td>
<td>16V-55V</td>
</tr>
<tr>
<td>Maximum Input Voltage</td>
<td>60V</td>
</tr>
<tr>
<td>Maximum Input Current</td>
<td>14.8A x 4</td>
</tr>
</tbody>
</table>

### Output Data (AC)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Output Power</td>
<td>1000W</td>
</tr>
<tr>
<td>Nominal Output Voltage</td>
<td>3 phase 230/400V-50Hz</td>
</tr>
<tr>
<td>Nominal Output Current</td>
<td>1.3A x 3</td>
</tr>
<tr>
<td>Nominal Output Frequency</td>
<td>50Hz</td>
</tr>
<tr>
<td>Power Factor</td>
<td>&gt;0.99</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Maximum Units per Branch (20A)</td>
<td>12 for 20A x 3 Breaker / 48 Modules</td>
</tr>
</tbody>
</table>

### Efficiency

- Max. Inverter Efficiency: 95%
- CEC Weighted Efficiency: 94.5%
- Nominal MPPT Efficiency: 99.9%
- Night Power consumption: 300mW

### Mechanical Data

- Operating Ambient Temperature Range: -40 °C to +65 °C
- Storage Temperature Range: -40 °C to +85 °C
- Dimensions (W x H x D): 259mm X 242mm X 36mm
- Weight: 3.8kg
- AC Cable Maximum Current: 20A x 3
- Connector type: MC4
- Enclosure Rating: IP67

### Cooling

- Natural Convection - No fans

### Features & Compliance

- Communication (Inverter to ECU): ZigBee (Wireless)
- Monitoring: Module-Level via EMA** software
- Transformer design: High frequency transformers, galvanically isolated
- Safety and EMC Compliance: EN 62109-1; EN 62109-2; EN61000-6-1; EN61000-6-2; EN61000-6-3; EN61000-6-4;
- Grid Connection Compliance: EN50438
- Warranty: 10 years standard; 20 years optional

**Energy Management Analysis

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Specifications subject to change without notice

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**APsystems | European offices**

Cypresbaan 7, 2908LT, Capelle aan den IJssel, The Netherlands
Tel: 031-10-2582670
Rue des Monts d'Or, ZAC de Folliouses Sud-Les Echets, 01700 Miribel, France
Email: emea@apsystems.com