Smart DT Series (Dual-MPPT, Three-Phase)

The GoodWe Smart DT series inverter is specially designed for three-phase home solar systems, covering a wide power range of 4kW, 5kW, 6kW, 8kW, 10kW, 12kW and 15kW. The integrated two MPPTs allow two-array inputs from different roof orientations.

The SDT series inverter is small, light and easy to install. Suitable for both outdoor and indoor installations, this inverter offers a quiet operation thanks to its fanless, natural convection cooling. In addition, the combination of both RS485 and Wi-Fi communication allows the system to be easily monitored and controlled.

- Easy wall mounting
- RS485 and Wi-Fi communication
- Fanless and quiet
- Super large 5-inch LCD
- IP65 dustproof and waterproof

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Technical Data

<table>
<thead>
<tr>
<th>PV String Input Data</th>
<th>GW4000-DT</th>
<th>GW5000-DT</th>
<th>GW6000-DT</th>
<th>GW8000-DT</th>
<th>GW10KN-DT</th>
<th>GW12KN-DT</th>
<th>GW15KN-DT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. DC Input Power (W)</td>
<td>5200</td>
<td>6500</td>
<td>7800</td>
<td>9600</td>
<td>12000</td>
<td>16800</td>
<td>19502</td>
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<tr>
<td>Max. DC Input Voltage (V)</td>
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<td>1000</td>
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<tr>
<td>MPPT Range (V)</td>
<td>200-800</td>
<td>200-800</td>
<td>200-800</td>
<td>200-800</td>
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<tr>
<td>StartUp Voltage (V)</td>
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<tr>
<td>MPPT Range for Full Load (V)</td>
<td>185-400</td>
<td>240-800</td>
<td>285-800</td>
<td>360-800</td>
<td>460-800</td>
<td>600-800</td>
<td>480-800</td>
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<td>Nominal DC Input Voltage (V)</td>
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<td>620</td>
<td>620</td>
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<tr>
<td>Max. Input Current (A)</td>
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<td>11/1</td>
<td>11/1</td>
<td>11/1</td>
<td>11/1</td>
<td>11/1</td>
<td>11/1</td>
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<tr>
<td>Max. Short Current (A)</td>
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<td>13.8</td>
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<td>No. of MPPT Trackers</td>
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<td>No. of Input Strings per Tracker</td>
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<td>1/1</td>
<td>1/1</td>
<td>1/1</td>
<td>1/1</td>
<td>1/1</td>
<td>1/1</td>
</tr>
</tbody>
</table>

AC Output Data

| Nominal Output Power (VA) | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Max. Output Power (VA) | 4000 | 5000 | 6000 | 8000 | 10000 | 14000 | 16000 |
| Nominal Output Voltage (V) | 400, 3L/N/PE | 400, 3L/N/PE | 400, 3L/N/PE | 400, 3L/N/PE | 400, 3L/N/PE | 400, 3L/N/PE | 400, 3L/N/PE |
| Nominal Output Frequency (Hz) | 50/0 | 50/0 | 50/0 | 50/0 | 50/0 | 50/0 | 50/0 |
| Max. Output Current (A) | 8.5 | 8.5 | 10 | 12 | 15.2 | 21.5 | 24 |
| Output Power Factor | <1 (<adjustable from 0.8 leading to 0.9 leading>) |
| Efficiency | 90.0% | 90.0% | 90.0% | 90.0% | 90.0% | 90.3% | 90.3% |
| Efficiency | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% |
| MPP Efficiency | 90.0% | 90.0% | 90.0% | 90.0% | 90.0% | 90.0% | 90.0% |

Protection

- Anti-Overload Protection: Integrated
- Input Reverse Polarity Protection: Integrated
- Insulation Resistance Detection: Integrated
- Residual Current Monitoring Unit: Integrated
- Over Current Protection: Integrated
- Over Short Protection: Integrated
- Over Voltage Protection: Integrated

General Data

- Operating Temperature Range (°C): -25-60
- Relative Humidity: 0-100%
- Operating Altitude (m): <4000
- Cooling: Natural Convection
- Noise (dB): <30

User Interface

- LCD & LED: Integrated
- RS485 or Wi-Fi: Integrated

Communication

- RS485 or Wi-Fi: Integrated
- RS485 or Wi-Fi: Integrated
- RS485 or Wi-Fi: Integrated
- RS485 or Wi-Fi: Integrated
- RS485 or Wi-Fi: Integrated
- RS485 or Wi-Fi: Integrated

Protection Diodes

- IP65: Integrated
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- IP65: Integrated

Night Load Consumption (VA)

- <1

Topology

- Transformless
- Transformless
- Transformless
- Transformless
- Transformless
- Transformless
- Transformless

Standards

- Safety Regulation: IEC/EN61035-1
- EN 61215:2012
- IEC/EN61010-1, EN 61010-060, IEC/EN61010-1-060, EN 61010-1-060, EN 61010-1-060