Growatt 17000TL3-S/20000TL3-S/25000TL3-S

Leading - edge Technology

- Maximum efficiency of 98.7%
- Multi MPP controller and MTL string
- 6 strings intelligent monitoring and Fuse protection
- Leading IPM (Intelligent Power Module), more reliable
- Internal DC switch and Transformerless
- Type II surge arresters for both DC and AC
- Anti-PID for PV module
- Supporting AC power supply
- Compact design and easy installation
- Comprehensive warranty program

Growatt 25000TL3-S efficiency

Growatt 17-25kTL3-S topology

GROWATT NEW ENERGY TECHNOLOGY Co., LTD
A: No.28 Guangming Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China.
T: +86 755 2747 1900 F: +86 755 2749 1460 E: info@ginvert.com
## Certificates and Approvals

CE, VDE 0126-1-1, VDE-AR-N4105, G59, CEI 0-21, CEI 0-16, VFR 2014, EN50438, IEC 62116, IEC 61727, IEC 61683, IEC 60068

## Datasheet

<table>
<thead>
<tr>
<th>Model</th>
<th>Growatt 17000TL3-S</th>
<th>Growatt 20000TL3-S</th>
<th>Growatt 25000TL3-S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Data</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max recommended PV Power (for module STC)</td>
<td>21250W</td>
<td>25000W</td>
<td>31250W</td>
</tr>
<tr>
<td>Max DC voltage</td>
<td>1000V</td>
<td>1000V</td>
<td>1000V</td>
</tr>
<tr>
<td>Start Voltage</td>
<td>250V</td>
<td>250V</td>
<td>250V</td>
</tr>
<tr>
<td>PV voltage range</td>
<td>200V - 1000V</td>
<td>200V - 1000V</td>
<td>200V - 1000V</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>580V</td>
<td>580V</td>
<td>580V</td>
</tr>
<tr>
<td>Full load MPP voltage range</td>
<td>400V - 800V</td>
<td>400V - 800V</td>
<td>400V - 800V</td>
</tr>
<tr>
<td>Max. input current</td>
<td>37.5A/37.5A</td>
<td>37.5A/37.5A</td>
<td>37.5A/37.5A</td>
</tr>
<tr>
<td>Max. input current per string</td>
<td>12.5A</td>
<td>12.5A</td>
<td>12.5A</td>
</tr>
<tr>
<td>Number of MPP trackers / strings per MPP tracker</td>
<td>2/3</td>
<td>2/3</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>Output (AC)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated AC output power</td>
<td>17000W</td>
<td>20000W</td>
<td>25000W</td>
</tr>
<tr>
<td>Max. AC apparent power</td>
<td>18800VA</td>
<td>22200VA</td>
<td>27700VA</td>
</tr>
<tr>
<td>Max. output current</td>
<td>27.5A</td>
<td>32.2A</td>
<td>40.3A</td>
</tr>
<tr>
<td>AC nominal voltage, range</td>
<td>230V/400V ; 320-478V</td>
<td>230V/400V ; 320-478V</td>
<td>230V/400V ; 320-478V</td>
</tr>
<tr>
<td>AC grid frequency</td>
<td>50Hz/60Hz ±5Hz</td>
<td>50Hz/60Hz ±5Hz</td>
<td>50Hz/60Hz ±5Hz</td>
</tr>
<tr>
<td>Power factor</td>
<td>0.8 leading - 0.8 lagging</td>
<td>0.8 leading - 0.8 lagging</td>
<td>0.8 leading - 0.8 lagging</td>
</tr>
<tr>
<td>THDi</td>
<td>&lt;3%</td>
<td>&lt;3%</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>AC grid connection type</td>
<td>3W+N+PE</td>
<td>3W+N+PE</td>
<td>3W+N+PE</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. efficiency</td>
<td>98.7%</td>
<td>98.7%</td>
<td>98.7%</td>
</tr>
<tr>
<td>Euro - eta</td>
<td>98.4%</td>
<td>98.4%</td>
<td>98.4%</td>
</tr>
<tr>
<td>MPPT efficiency</td>
<td>99.5%</td>
<td>99.5%</td>
<td>99.5%</td>
</tr>
<tr>
<td><strong>Protection Devices</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC reverse polarity protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>DC Switch</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>DC Surge protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Ground fault monitoring</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Output short circuit protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>AC Surge protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>String Fuse protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>String fault monitoring</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Anti-PID protection</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><strong>General Data</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W / H / D)</td>
<td>470/754/270 mm</td>
<td>470/754/270 mm</td>
<td>470/754/270 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>48kg</td>
<td>48kg</td>
<td>48kg</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-25 °C ... +60 °C</td>
<td>-25 °C ... +60 °C</td>
<td>-25 °C ... +60 °C</td>
</tr>
<tr>
<td>Noise emission (typical)</td>
<td>≤50 dB(A)</td>
<td>≤50 dB(A)</td>
<td>≤50 dB(A)</td>
</tr>
<tr>
<td>Self-Consumption (night)</td>
<td>≤1W</td>
<td>≤1W</td>
<td>≤1W</td>
</tr>
<tr>
<td>Topology</td>
<td>Transformerless</td>
<td>Transformerless</td>
<td>Transformerless</td>
</tr>
<tr>
<td>Cooling concept</td>
<td>Smart cooling</td>
<td>Smart cooling</td>
<td>Smart cooling</td>
</tr>
<tr>
<td>Environmental Protection Rating</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td>Altitude</td>
<td>4000m</td>
<td>4000m</td>
<td>4000m</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>0~100%</td>
<td>0~100%</td>
<td>0~100%</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>LED+ LCD</td>
<td>LED+ LCD</td>
<td>LED+ LCD</td>
</tr>
<tr>
<td>Interfaces: RS232/R485/WiFi</td>
<td>yes / yes / opt</td>
<td>yes / yes / opt</td>
<td>yes / yes / opt</td>
</tr>
<tr>
<td>Warranty: 5 years / 10 years</td>
<td>yes / opt</td>
<td>yes / opt</td>
<td>yes / opt</td>
</tr>
</tbody>
</table>

---

FOR ENQUIRY

VRM Energy Consultancy Services Pvt. Ltd.
No.1, Rathinamman Street, Rangarajapuram Main Road,
Kodambakkam, Chennai - 600 024
Mobile: +91 89399 80135
Website: [www.vrmenergy.com](http://www.vrmenergy.com) | sales@vrmenergy.com