# Technical Specification for Cummins Industrial Type Generator Set

## Rated Power 80KW/100KVA TPD100C6-1

### DIESEL GENERATOR DATA:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator set model</td>
<td>TPD100C6-1</td>
</tr>
<tr>
<td>Generator rated power</td>
<td>80KW/100KVA</td>
</tr>
<tr>
<td>Generator standby power</td>
<td>88KW/110KVA</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>60HZ</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>440V (Can be adjusted)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>1800RPM</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>22.6L/h</td>
</tr>
<tr>
<td>Open type size</td>
<td>2085x785x1550 MM</td>
</tr>
<tr>
<td>Silent type size</td>
<td>2412x1056x1302 MM</td>
</tr>
<tr>
<td>Open type weight</td>
<td>1100 Kg</td>
</tr>
<tr>
<td>Silent type weight</td>
<td>1650 Kg</td>
</tr>
</tbody>
</table>

### ENGINE DATA:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine model</td>
<td>6BT5.9-G1</td>
</tr>
<tr>
<td>Engine brand</td>
<td>CUMMINS</td>
</tr>
<tr>
<td>Engine rated power</td>
<td>100KW/125KVA</td>
</tr>
<tr>
<td>Engine standby power</td>
<td>110KW/137.5KVA</td>
</tr>
<tr>
<td>Engine speed</td>
<td>1800RPM</td>
</tr>
<tr>
<td>Bore &amp; Stroke</td>
<td>102 × 120 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>5.9 L</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>17.3:1</td>
</tr>
<tr>
<td>Fuel consumption at 100% load</td>
<td>208 g/kW.h</td>
</tr>
<tr>
<td>Type</td>
<td>In line,6 cylinders,4 stroke</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharger &amp; Aftercooler</td>
</tr>
<tr>
<td>Governor</td>
<td>Electronic</td>
</tr>
<tr>
<td>Cooling method</td>
<td>Water cooled by radiator</td>
</tr>
</tbody>
</table>

### ALTERNATOR DATA:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternator model</td>
<td>UCI 274C</td>
</tr>
<tr>
<td>Alternator brand</td>
<td>STAMFORD MARATHON TONTEK</td>
</tr>
<tr>
<td>Rated power</td>
<td>94KW/117.5KVA 84KW/105KVA 80KW/100KVA</td>
</tr>
<tr>
<td>Frequency</td>
<td>60HZ</td>
</tr>
<tr>
<td>Speed</td>
<td>1800RPM</td>
</tr>
<tr>
<td>Voltage</td>
<td>440V (Can be adjusted)</td>
</tr>
</tbody>
</table>

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Power factor : 0.8 (lagging)
Phase and wire : 3 phase 4 wires
Excite type : Single Bearing, Close coupled. Brushless, self-exciting, AVR
Protection class : IP23
Insulation class : H

**CONTROL SYSTEM DATA:**
Deepsea-DSE6020 (Standard)

![Control System Display]

**The control module display**
- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Engine run-time Hours
- Engine oil pressure (Panel Meter)
- Engine coolant temperature (Panel Meter)

**Protecting Functions**
- Over frequency / under frequency
- Over voltage / under voltage
- Over current
- Over speed /under speed
- Emergency stop
- Low oil pressure
- High water temperature
- Failure to start/Failure to stop
- Battery charger failure
- Comprehensive shutdown or warning on fault condition

**SCOPE OF SUPPLY:**
- Diesel generator (Open type) : 1 Set
- Soundproof canopy : 1 Set
- Control system : 1 Set
- CHINT breaker : 1 Pcs
- Daily use base fuel tank for 8 working hours : 1 Pcs
- Muffler : 1 Pcs
- Maintenance-free battery DC24V and connection wires : 1 Set
- Flange : 1 Pcs
- Bellows : 1 Pcs
- Standard maintenance tool : 1 Set

**OPTION:**
- ABB MCCB circuit breaker
- Residential exhaust muffler
- 12 hours/24 hours base fuel tank
- Dual wall base fuel tank
- External fuel tank
- Droop Kit for synchronizing work
- Anti Condensation Heater
- Super silent canopy
- 50°C radiator
- Water heater
- Oil heater
- Oil-water separator
- PMG excitation
- Remote Control panel

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**Paralleling System**

**ATS control cabinet**

**DOCUMENTATION:**
- Engine documents: 1 Set
- Alternator documents: 1 Set
- Control system documents: 1 Set
- Generator set operation & manual: 1 Pcs
- Generator set testing report: 1 Pcs
- Electric drawing: 1 Set

**FACTORY ACCEPTANCE TEST (FAT):**
The safety function test for the generator set will be carried out in Tontek Power Limited factory in China. All consumables items during the test will be provided.

**WARRANTY:**
18 months or 1500 Working Hours from the shipment date, whichever comes first.

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**Contact Us**

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Please contact the salesman before ordering.

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