## Technical Specification for Cummins Industrial Type Generator Set

**Rated Power 30KW/38KVA TPD38C6-1**

### DIESEL GENERATOR DATA:
- **Generator set model:** TPD38C6-1
- **Generator rated power:** 30KW/38KVA
- **Generator standby power:** 33KW/41KVA
- **Rated frequency:** 60HZ
- **Rated voltage:** 440V (Can be adjusted)
- **Rated speed:** 1800RPM
- **Fuel consumption:** 10L/h
- **Open type size:** 1680x730x1285 MM
- **Silent type size:** 2400x1000x1560 MM
- **Open type weight:** 700 Kg
- **Silent type weight:** 1200 Kg

### ENGINE DATA:
- **Engine model:** 4BT3.9-G1
- **Engine brand:** CUMMINS
- **Engine rated power:** 40KW/50KVA
- **Engine standby power:** 44KW/55KVA
- **Engine speed:** 1800RPM
- **Bore & Stroke:** 102 × 120 mm
- **Displacement:** 3.9 L
- **Compression ratio:** 17.3:1
- **Fuel consumption at 100% load:** 229 g/kW.h
- **Type:** In line, 4 cylinders, 4 stroke
- **Aspiration:** Turbocharged
- **Governor:** Mechanical
- **Cooling method:** Water cooled by radiator

### ALTERNATOR DATA:
- **Alternator model:** PI144H GM-24-4 TP-30-4
- **Alternator brand:** STAMFORD MARATHON TONTEK
- **Rated power:** 32.9KW/41.12KVA 31KW/38.75KVA 30KW/38KVA
- **Frequency:** 60HZ
- **Speed:** 1800RPM
- **Voltage:** 440V (Can be adjusted)

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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)

![Image of control system](image)

**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:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine documents</td>
<td>1 Set</td>
</tr>
<tr>
<td>Alternator documents</td>
<td>1 Set</td>
</tr>
<tr>
<td>Control system documents</td>
<td>1 Set</td>
</tr>
<tr>
<td>Generator set operation&amp;manual</td>
<td>1 Pcs</td>
</tr>
<tr>
<td>Generator set testing report</td>
<td>1 Pcs</td>
</tr>
<tr>
<td>Electric drawing</td>
<td>1 Set</td>
</tr>
</tbody>
</table>

**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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TONTEK POWER LIMITED reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice.  
Please contact the salesman before ordering.

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