Technical Specification for Cummins Industrial Type Generator Set

Rated Power 250KW/313KVA TPD313C5-2

**DIESEL GENERATOR DATA:**
- Generator set model: TPD313C5-2
- Generator rated power: 250KW/313KVA
- Generator standby power: 280KW/350KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 69L/h
- Open type size: 2915x1000x1700 MM
- Silent type size: 3500x1200x1800 MM
- Open type weight: 2500 Kg
- Silent type weight: 2980 Kg

**ENGINE DATA:**
- Engine model: MTAA11-G3
- Engine brand: CUMMINS
- Engine rated power: 282KW
- Engine standby power: 310KW
- Engine speed: 1500RPM
- Bore & Stroke: 125 × 147 mm
- Displacement: 11 L
- Compression ratio: 15.0:1
- Type: In line,6 cylinders,4 stroke
- Aspiration: Turbocharged, Aftercooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: HCI 444ES MP-250-4A TP-250-4
- Alternator brand: STAMFORD MARATHON TONTEK
- Rated power: 260KW 250KW 250KW
- Frequency: 50HZ
- Speed: 1500RPM
- Voltage: 400/230V (Can be adjusted)
- Power factor: 0.8 (lagging)

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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)

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
* Paralleling System

* Super silent canopy
* 50°C radiator
* Water heater
* Oil heater
* Oil-water separator
* PMG excitation
* Remote Control panel
* ATS control cabinet

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**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**

TONTEK POWER LIMITED.
Add:Hailing Industrial Zone, Taizhou City, Jiangsu P.R.C.
Tel: +86 523 81556166
Fax: +86 523 81558066
E-mail : info@tontekpower.com
Website : www.tontekpower.com

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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