Technical Specification for Cummins Industrial Type Generator Set

Rated Power 400KW/500KVA TPD500C5-2

**DIESEL GENERATOR DATA:**
- Generator set model: TPD500C5-2
- Generator rated power: 400KW/500KVA
- Generator standby power: 440KW/550KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 106.9L/h
- Open type size: 3226x1245x1990 MM
- Silent type size: 4700x1350x2500 MM
- Open type weight: 4000 Kg
- Silent type weight: 5080 Kg

**ENGINE DATA:**
- Engine model: KTA19-G4
- Engine brand: CUMMINS
- Engine rated power: 448KW
- Engine standby power: 504KW
- Engine speed: 1500RPM
- Bore & Stroke: 159 × 159 mm
- Displacement: 19 L
- Compression ratio: 13.9:1
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbocharged Charge Air cooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: HCI 544C
- Alternator brand: STAMFORD
- Alternator model: MP-400-4
- Alternator model: MARATHON
- Alternator model: TONTEK
- Rated power: 400KW
- 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**

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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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