Technical Specification for Cummins Industrial Type Generator Set

Rated Power 275KW/344KVA TPD344C5

**DIESEL GENERATOR DATA:**
- Generator set model: TPD344C5
- Generator rated power: 275KW/344KVA
- Generator standby power: 300KW/375KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 72L/h
- Open type size: 2886x1010x1710 MM
- Silent type size: 4400x1350x2300 MM
- Open type weight: 3000 Kg
- Silent type weight: 4620 Kg

**ENGINE DATA:**
- Engine model: NTA855-G2A
- Engine brand: CUMMINS
- Engine rated power: 310KW
- Engine standby power: 343KW
- Engine speed: 1500RPM
- Bore & Stroke: 140 × 152 mm
- Displacement: 14 L
- Compression ratio: 14.0:1
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbocharged, Aftercooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: HCI 444E
- Alternator brand: STAMFORD, MARATHON, TONTEK
- Rated power: 280KW
- Frequency: 50HZ
- Speed: 1500RPM
- Voltage: 400/230V (Can be adjusted)
- Power factor: 0.8 (lagging)

"Green Power, Power with our heart!"
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)

![Deepsea-DSE6020](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*
- *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>
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</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.