Technical Specification for Cummins Industrial Type Generator Set

Rated Power 80KW/100KVA TPD100C5-1

**DIESEL GENERATOR DATA:**

- Generator set model: TPD100C5-1
- Generator rated power: 80KW/100KVA
- Generator standby power: 88KW/110KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 21.7L/h
- Open type size: 2085x785x1550 MM
- Silent type size: 2412x1056x1302 MM
- Open type weight: 1100 Kg
- Silent type weight: 1650 Kg

**ENGINE DATA:**

- Engine model: 6BT5.9-G1
- Engine brand: CUMMINS
- Engine rated power: 86KW
- Engine standby power: 92KW
- Engine speed: 1500RPM
- Bore & Stroke: 102 × 120 mm
- Displacement: 5.9 L
- Compression ratio: 17.3:1
- Fuel consumption at 100% load: 208 g/kW.h
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbochanger & Aftercooler
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**

- Alternator model: UCI 274C
- Alternator brand: STAMFORD
- Rated power: 80KW
- Frequency: 50HZ
- Speed: 1500RPM
- Voltage: 400/230V (Can be adjusted)

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Power factor : 0.8 (lagging)
Phase and wire : 3 phase 4 wires
Exite 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
- Super silent canopy
- *50℃* 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>
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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.

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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