Technical Specification for Cummins Industrial Type Generator Set

Rated Power 470KW/588KVA TPD588C6

**DIESEL GENERATOR DATA:**
Generator set model: TPD588C6  
Generator rated power: 470KW/588KVA  
Generator standby power: 550KW/688KVA  
Rated frequency: 60HZ  
Rated voltage: 440V (Can be adjusted)  
Rated speed: 1800RPM  
Fuel consumption: 131L/h  
Open type size: 3246x1245x1990 MM  
Silent type size: 4700x1800x2500 MM  
Open type weight: 4100 Kg  
Silent type weight: 5920 Kg

**ENGINE DATA:**
Engine model: KTAA19-G5  
Engine brand: CUMMINS  
Engine rated power: 533KW/666.25KVA  
Engine standby power: 605KW/756.25KVA  
Engine speed: 1800RPM  
Bore & Stroke: 159 × 159 mm  
Displacement: 19 L  
Compression ratio: 13.5:1  
Type: In line, 6 cylinders, 4 stroke  
Aspiration: Turbocharged  
Governor: Electronic  
Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
Alternator model: HCI 544D  
Alternator brand: STAMFORD MARATHON TONTEK  
Rated power: 475.2KW/593.75KVA  
465KW/581.25KVA  
475KW/593.75KVA  
Frequency: 60HZ  
Speed: 1800RPM  
Voltage: 440V (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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