Technical Specification for Cummins Industrial Type Generator Set

Rated Power 450KW/563KVA TPD563C6-1

**DIESEL GENERATOR DATA:**

- Generator set model: TPD563C6-1
- Generator rated power: 450KW/563KVA
- Generator standby power: 500KW/625KVA
- Rated frequency: 60HZ
- Rated voltage: 440V (Can be adjusted)
- Rated speed: 1800RPM
- Fuel consumption: 119.3L/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-G3A
- Engine brand: CUMMINS
- Engine rated power: 507KW/633.75KVA
- Engine standby power: 563KW/703.75KVA
- Engine speed: 1800RPM
- Bore & Stroke: 159 × 159 mm
- Displacement: 13 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 544D MX-380-4 TP-475
- Alternator brand: STAMFORD MARATHON TONTEK
- Rated power: 475.2KW/594KVA 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℃ 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>Document Type</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>
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<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.

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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