Technical Specification for Cummins Industrial Type Generator Set

Rated Power 450KW/563KVA TPD563C6-2

**DIESEL GENERATOR DATA:**
- Generator set model: TPD563C6-2
- 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-G4
- Engine brand: CUMMINS
- Engine rated power: 507KW/633.75KVA
- Engine standby power: 563KW/703.75KVA
- Engine speed: 1800RPM
- Bore & Stroke: 159 × 159 mm
- Displacement: 19L
- 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
- 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°C radiator
- Water heater
- Oil heater
- Oil-water separator
- PMG excitation
- Remote Control panel
- ATS control cabinet

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DOCUMENTATION:

- Engine documents: 1 Set
- Alternator documents: 1 Set
- Control system documents: 1 Set
- Generator set operation&manual: 1 Pcs
- Generator set testing report: 1 Pcs
- Electric drawing: 1 Set

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.