Technical Specification for Cummins Industrial Type Generator Set

Rated Power 400KW/500KVA TPD500C5-2

**DIESEL GENERATOR DATA:**

- **Generator set model:** TPD500C5-2
- **Generator rated power:** 400KW/500KVA
- **Generator standby power:** 440KW/550KVA
- **Rated frequency:** 50HZ
- **Rated voltage:** 400/230V (Can be adjusted)
- **Rated speed:** 1500RPM
- **Fuel consumption:** 106.9L/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:** 448KW
- **Engine standby power:** 504KW
- **Engine speed:** 1500RPM
- **Bore & Stroke:** 130 × 163 mm
- **Displacement:** 13 L
- **Compression ratio:** 14.5:1
- **Fuel consumption at 100% load:** 204 g/kW.h
- **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 544C
- **Alternator brand:** STAMFORD
- **Rated power:** 400KW
- **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
Excite type : Single Bearing, Close coupled. Brushless, self-exciting, AVR
Protection class : IP23
Insulation class : H

**CONTROL SYSTEM DATA:**
Deepsea-DSE6020 (Standard)

![Control Module Display](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
- Super silent canopy
- 50°C radiator
- Water heater
- Oil heater
- Oil-water separator
- PMG excitation
- Remote Control panel

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*Paralleling System

**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.