Technical Specification for Cummins Industrial Type Generator Set

**Rated Power** 20KW/25KVA TPD25C5-1

**DIESEL GENERATOR DATA:**
- Generator set model: TPD25C5-1
- Generator rated power: 20KW/25KVA
- Generator standby power: 22KW/28KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 7.1L/h
- Open type size: 1680x730x1285 MM
- Silent type size: 2400x1000x1560 MM
- Open type weight: 650 Kg
- Silent type weight: 1150 Kg

**ENGINE DATA:**
- Engine model: 4B3.9-G1
- Engine brand: CUMMINS
- Engine rated power: 24KW/30KVA
- Engine standby power: 27KW/33KVA
- Engine speed: 1500RPM
- Bore & Stroke: 102 × 120 mm
- Displacement: 3.9 L
- Compression ratio: 16.5:1
- Fuel consumption at 100% load: 245 g/kW.h
- Type: In line, 4 cylinders, 4 stroke
- Aspiration: Naturally Aspirated
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: PI144E GM-20-4 TP-22-4
- Alternator brand: STAMFORD MARATHON TONTEK
- Rated power: 20kW 20kW 22kW
- 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 System 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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*Parallong System

*ATS control cabinet

**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.

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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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