# Technical Specification for Cummins Industrial Type Generator Set

## Rated Power 180KW/225KVA TPD225C6

### DIESEL GENERATOR DATA:
- **Generator set model**: TPD225C6
- **Generator rated power**: 180KW/225KVA
- **Generator standby power**: 200KW/250KVA
- **Rated frequency**: 60HZ
- **Rated voltage**: 440V (Can be adjusted)
- **Rated speed**: 1800RPM
- **Fuel consumption**: 49L/h
- **Open type size**: 2460x945x1560 MM
- **Silent type size**: 3500x1200x1800 MM
- **Open type weight**: 1800 Kg
- **Silent type weight**: 2980 Kg

### ENGINE DATA:
- **Engine model**: 6CTAA8.3-G2
- **Engine brand**: CUMMINS
- **Engine rated power**: 200KW/250KVA
- **Engine standby power**: 220KW/275KVA
- **Engine speed**: 1800RPM
- **Bore & Stroke**: 114 × 135 mm
- **Displacement**: 8.3 L
- **Fuel consumption at 100% load**: 205 g/kW.h
- **Type**: In line, 6 cylinders, 4 stroke
- **Aspiration**: Turbocharged & Aftercooled
- **Governor**: Electronic
- **Cooling method**: Water cooled by radiator

### ALTERNATOR DATA:
- **Alternator model**: UCI 274H
- **Alternator brand**: STAMFORD
- **Rated power**: 196KW/245KVA
- **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.

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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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