Technical Specification for Cummins Industrial Type Generator Set

Rated Power 58KW/73KVA TPD73C5

**DIESEL GENERATOR DATA:**

- Generator set model: TPD73C5
- Generator rated power: 58KW/73KVA
- Generator standby power: 64KW/80KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 12.9L/h
- Open type size: 1660x730x1435 MM
- Silent type size: 3000x1240x1760 MM
- Open type weight: 895 Kg
- Silent type weight: 1715 Kg

**ENGINE DATA:**

- Engine model: 4BTA3.9-G11
- Engine brand: CUMMINS
- Engine rated power: 70KW
- Engine standby power: 80KW
- Engine speed: 1500RPM
- Bore & Stroke: 102 × 120 mm
- Displacement: 3.9 L
- Compression ratio: 17.3:1
- Fuel consumption at 100% load: 208 g/kW.h
- Type: In line, 4 cylinders, 4 stroke
- Aspiration: Turbochanger & Aftercooler
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**

- Alternator model: UCI 224F MP-58-4 TP-58-4
- Alternator brand: STAMFORD MARATHON TONTEK
- Rated power: 58KW 58KW 58KW
- 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

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.