Technical Specification for Cummins Industrial Type Generator Set

Rated Power 80KW/100KVA TPD100C5-2

**DIESEL GENERATOR DATA:**

Generator set model: TPD100C5-2  
Generator rated power: 80KW/100KVA  
Generator standby power: 88KW/110KVA  
Rated frequency: 50HZ  
Rated voltage: 400/230V (Can be adjusted)  
Rated speed: 1500RPM  
Fuel consumption: 21.7L/h  
Open type size: 2085x785x1550 MM  
Silent type size: 2412x1056x1302 MM  
Open type weight: 1100 Kg  
Silent type weight: 1650 Kg

**ENGINE DATA:**

Engine model: 6BT5.9-G2  
Engine brand: CUMMINS  
Engine rated power: 90KW  
Engine standby power: 92KW  
Engine speed: 1500RPM  
Bore & Stroke: 102 × 120 mm  
Displacement: 5.9 L  
Compression ratio: 17.3:1  
Fuel consumption at 100% load: 214 g/kW.h  
Type: In line, 6 cylinders, 4 stroke  
Aspiration: Turbochanger & Aftercooler  
Governor: Electronic  
Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**

Alternator model: UCI 274C  
Alternator brand: STAMFORD MARATHON TONTEK  
Rated power: 80KW 80KW 80KW  
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
Exite 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
* 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.

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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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