Technical Specification for Cummins Industrial Type Generator Set

Rated Power 360KW/450KVA TPD450C5-1

**DIESEL GENERATOR DATA:**
- Generator set model: TPD450C5-1
- Generator rated power: 360KW/450KVA
- Generator standby power: 400KW/500KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 70.4L/h
- Open type size: 2956x1360x1855 MM
- Silent type size: 4400x1350x2300 MM
- Open type weight: 3000 Kg
- Silent type weight: 4680 Kg

**ENGINE DATA:**
- Engine model: QSZ13-G2
- Engine brand: CUMMINS
- Engine rated power: 400KW
- Engine standby power: 415KW
- Engine speed: 1500RPM
- Bore & Stroke: 130 × 163 mm
- Displacement: 13 L
- Compression ratio: 17:1
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbocharged, Aftercooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: HCI 544C
- Alternator brand: STAMFORD
- Rated power: 400KW 360KW 360KW
- Frequency: 50HZ
- Speed: 1500RPM
- Voltage: 400/230V (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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**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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