Technical Specification for Cummins Industrial Type Generator Set

Rated Power 360KW/450KVA TPD450C5-2

**DIESEL GENERATOR DATA:**
- Generator set model: TPD450C5-2
- 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: 3126x1245x1990 MM
- Silent type size: 4400x1350x2300 MM
- Open type weight: 3600 Kg
- Silent type weight: 4680 Kg

**ENGINE DATA:**
- Engine model: KTA19-G3
- Engine brand: CUMMINS
- Engine rated power: 403KW
- Engine standby power: 448KW
- Engine speed: 1500RPM
- Bore & Stroke: 159 × 159 mm
- Displacement: 19 L
- Compression ratio: 13.9:1
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbocharged, Aftercooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: HCI 544C, MP-360-4, TP-360-4
- Alternator brand: STAMFORD, MARATHON, TONTEK
- 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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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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