Technical Specification for Cummins Industrial Type Generator Set

Standby Power 520KW/650KVA TPD590C5

**DIESEL GENERATOR DATA:**

- Generator set model: TPD590C5
- Generator standby power: 520KW/650KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 141.4L/h
- Open type size: 3366x1550x2200 MM
- Silent type size: 4400x1350x2300 MM
- Open type weight: 4000 Kg
- Silent type weight: 4680 Kg

**ENGINE DATA:**

- Engine model: KTA19-G8
- Engine brand: CUMMINS
- Engine standby power: 575KW
- Engine speed: 1500RPM
- Bore & Stroke: 159 × 159 mm
- Displacement: 18.9 L
- Compression ratio: 17.0:1
- Type: In line, 6 cylinders, 4 stroke
- Aspiration: Turbocharged, Air-Air Aftercooled
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**

- Alternator model: HCI 544E, MP-480-4, TP-500-4
- Alternator brand: STAMFORD, MARATHON, TONTEK
- Rated power: 488KW, 480KW, 500KW
- Frequency: 50HZ
- Speed: 1500RPM
- Voltage: 400/230V (Can be adjusted)
- Power factor: 0.8 (lagging)
- Phase and wire: 3 phase 4 wires
- Excite type: Single Bearing, Close coupled. Brushless, self-exciting, AVR

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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

DOCUMENTATION:

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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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