Technical Specification for Cummins Industrial Type Generator Set

Standby Power 360KW/450KVA TPD410C5

**DIESEL GENERATOR DATA:**
- Generator set model: TPD410C5
- Generator standby power: 360KW/450KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 83L/h
- Open type size: 3066x1120x1710 MM
- Silent type size: 4400x1350x2300 MM
- Open type weight: 3400 Kg
- Silent type weight: 4680 Kg

**ENGINE DATA:**
- Engine model: NTAA855-G7A
- Engine brand: CUMMINS
- Engine standby power: 407KW
- Engine speed: 1500RPM
- Bore & Stroke: 140 × 152 mm
- Displacement: 14 L
- Compression ratio: 14.0:1
- 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 544C, MP-320-4A, TP-320-4
- Alternator brand: STAMFORD, MARATHON, TONTEK
- Rated power: 400KW, 320KW, 320KW
- 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)

![Control module display]

**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℃ radiator
- *Water heater
- *Oil heater
- *Oil-water separator
- *PMG excitation
- *Remote Control panel
- *ATS control cabinet

**DOCUMENTATION:**

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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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