Technical Specification for Cummins Industrial Type Generator Set

Rated Power 20KW/25KVA TPD25C5-2

**DIESEL GENERATOR DATA:**
- Generator set model: TPD25C5-2
- Generator rated power: 20KW/25KVA
- Generator standby power: 22KW/28KVA
- Rated frequency: 50HZ
- Rated voltage: 400/230V (Can be adjusted)
- Rated speed: 1500RPM
- Fuel consumption: 7.5L/h
- Open type size: 1680x730x1285 MM
- Silent type size: 2400x1000x1560 MM
- Open type weight: 650 Kg
- Silent type weight: 1150 Kg

**ENGINE DATA:**
- Engine model: 4B3.9-G2
- Engine brand: CUMMINS
- Engine rated power: 24KW/30KVA
- Engine standby power: 27KW/33KVA
- Engine speed: 1500RPM
- Bore & Stroke: 102 × 120 mm
- Displacement: 3.9 L
- Compression ratio: 16.5:1
- Fuel consumption at 100% load: 229 g/kW.h
- Type: In line, 4 cylinders, 4 stroke
- Aspiration: Naturally Aspirated
- Governor: Electronic
- Cooling method: Water cooled by radiator

**ALTERNATOR DATA:**
- Alternator model: PI144E GM-20-4 TP-22-4
- Alternator brand: STAMFD MARATHON TONTEK
- Rated power: 20kW 20kW 22kW
- 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)**

![Control module display](image)

**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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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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