

## Technical Specification for Cummins Industrial Type Generator Set

### Standby Power 550KW/688KVA TPD625C5-1

#### **DIESEL GENERATOR DATA:**

|                         |                              |
|-------------------------|------------------------------|
| Generator set model     | : TPD625C5-2                 |
| Generator rated power   | : 500KW/625KVA               |
| Generator standby power | : 560KW/700KVA               |
| Rated frequency         | : 50HZ                       |
| Rated voltage           | : 400/230V (Can be adjusted) |
| Rated speed             | : 1500RPM                    |
| Fuel consumption        | : 140L/h                     |
| Open type size          | : 3952x1800x2300 MM          |
| Silent type size        | : 4900x2250x2600 MM          |
| Open type weight        | : 6500 Kg                    |
| Silent type weight      | : 9300 Kg                    |

#### **ENGINE DATA:**

|                      |                                   |
|----------------------|-----------------------------------|
| Engine model:        | : KT38-G                          |
| Engine brand         | : CUMMINS                         |
| Engine rated power   | : 560KW                           |
| Engine standby power | : 615KW                           |
| Engine speed         | : 1500RPM                         |
| Bore & Stroke        | : 159 × 159 mm                    |
| Displacement         | : 18.9 L                          |
| Compression ratio    | : 15.5:1                          |
| Type                 | : In line, 6 cylinders, 4 stroke  |
| Aspiration           | : Turbocharged and air-air cooled |
| Governor             | : Electronic                      |
| Starting method      | : DC 24V                          |
| Cooling method       | : Water cooled by radiator        |

#### **ALTERNATOR DATA:**

|                  |                              |          |          |
|------------------|------------------------------|----------|----------|
| Alternator model | : HCI 544FS                  | MP-500-4 | TP-500-4 |
| Alternator brand | : STAMFORD                   | MARATHON | TONTEK   |
| Rated power      | : 500kW                      | 500kW    | 500kW    |
| 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                                             |
| 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         | *Super silent canopy  |
| *Residential exhaust muffler      | *50°C radiator        |
| *12 hours/24 hours base fuel tank | *Water heater         |
| *Dual wall base fuel tank         | *Oil heater           |
| *External fuel tank               | *Oil-water separator  |
| *Droop Kit for synchronizing work | *PMG excitation       |
| *Anti Condensation Heater         | *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.

## Contact Us

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Please contact the salesman before ordering.

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