

## Technical Specification for Cummins Industrial Type Generator Set

### Rated Power 220KW/275KVA TPD275C5

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

|                         |                              |
|-------------------------|------------------------------|
| Generator set model     | : TPD275C5                   |
| Generator rated power   | : 220KW/275KVA               |
| Generator standby power | : 250KW/313KVA               |
| Rated frequency         | : 50HZ                       |
| Rated voltage           | : 400/230V (Can be adjusted) |
| Rated speed             | : 1500RPM                    |
| Fuel consumption        | : 55L/h                      |
| Open type size          | : 2930x1010x1710 MM          |
| Silent type size        | : 3500x1200x1800 MM          |
| Open type weight        | : 2850 Kg                    |
| Silent type weight      | : 2980 Kg                    |

#### **ENGINE DATA:**

|                      |                                  |
|----------------------|----------------------------------|
| Engine model:        | : NTA855-G1A                     |
| Engine brand         | : CUMMINS                        |
| Engine rated power   | : 261KW                          |
| Engine standby power | : 291KW                          |
| Engine speed         | : 1500RPM                        |
| Bore & Stroke        | : 140 × 152 mm                   |
| Displacement         | : 14 L                           |
| Compression ratio    | : 14.5:1                         |
| Type                 | : In line, 6 cylinders, 4 stroke |
| Aspiration           | : Turbocharged, Aftercooled      |
| Governor             | : Electronic                     |
| Cooling method       | : Water cooled by radiator       |

#### **ALTERNATOR DATA:**

|                  |                              |           |          |
|------------------|------------------------------|-----------|----------|
| Alternator model | : UCDI 274K                  | MP-200-4A | TP-200-4 |
| Alternator brand | : STAMFORD                   | MARATHON  | TONTEK   |
| Rated power      | : 200KW                      | 200KW     | 200KW    |
| 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)
- 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 |
| *Paralleling System               | *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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Please contact the salesman before ordering.

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