

**Technical Specification for Cummins USA Industrial Type Generator Set****Prime Power 410KW/513KVA TPDC450-2****DIESEL GENERATOR DATA:**

|                         |                              |
|-------------------------|------------------------------|
| Generator set model     | : TPDC450-2                  |
| Generator rated power   | : 410KW/513KVA               |
| Generator standby power | : 450KW /563KVA              |
| Rated frequency         | : 60HZ                       |
| Rated voltage           | : 430/220V (Can be adjusted) |
| Rated speed             | : 1800RPM                    |
| Fuel consumption        | : 79.1L/h                    |
| Open type size          | : 3600×1360×2050 MM          |
| Silent type size        | : 4580*1620*2340 MM          |
| Open type weight        | : 4250 Kg                    |
| Silent type weight      | : 4950 Kg                    |

**ENGINE DATA:**

|                               |                                |
|-------------------------------|--------------------------------|
| Engine model:                 | : QSX15-G7                     |
| Engine brand                  | : CUMMINS USA                  |
| Engine rated power            | : 463KW /578.75KVA             |
| Engine standby power          | : 511KW/638.75KVA              |
| Engine speed                  | : 1800RPM                      |
| Bore & Stroke                 | : 137×169 mm                   |
| Displacement                  | : 15 L                         |
| Compression ratio             | : 13.9:1                       |
| Fuel consumption at 100% load | : 108L/H                       |
| Type                          | : In line,6 cylinders,4 stroke |
| Aspiration                    | : Turbocharged                 |
| Governor                      | : Electronic                   |
| Starting method               | : DC 24V                       |
| Cooling method                | : Water cooled by radiator     |

**ALTERNATOR DATA:**

|                  |                |              |              |
|------------------|----------------|--------------|--------------|
| Alternator model | : UCI 4F       | ECO40 1S4A   | TP-360       |
| Alternator brand | : STAMFORD     | MECC ALTE    | TONTEK       |
| Rated power      | : 364kW/455KVA | 384kW/480KVA | 360kW/450KVA |
| Frequency        | : 60HZ         |              |              |
| Speed            | : 1800RPM      |              |              |

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|                  |                                                                |
|------------------|----------------------------------------------------------------|
| Voltage          | : 430/220V (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 |
| 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      |

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\*Anti Condensation Heater

\*Paralleling System

\*Remote Control panel

\*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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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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