

## Technical Specification for Perkins Industrial Type Generator Set

### Prime Power 400KW /320KVA TPD400P6E

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

|                         |                              |
|-------------------------|------------------------------|
| Generator set model     | : TPD400P6E                  |
| Generator rated power   | : 320KW /400KVA              |
| Generator standby power | : 350KW /438KVA              |
| Rated frequency         | : 60HZ                       |
| Rated voltage           | : 440/254V (Can be adjusted) |
| Rated speed             | : 1800RPM                    |
| Fuel consumption        | : 71 L/h                     |
| Open type size          | : 2410 × 1120 × 1725 MM      |
| Silent type size        | : 4400 × 1350 × 2300 MM      |
| Open type weight        | : 1478 Kg                    |
| Silent type weight      | : 4620 Kg                    |
| Certificate             | : EPA                        |

#### **ENGINE DATA:**

|                               |                                  |
|-------------------------------|----------------------------------|
| Engine model:                 | : 2206D-E13TAG2                  |
| Engine brand                  | : PERKINS                        |
| Engine rated power            | : NA                             |
| Engine standby power          | : 381KW/476.25KVA                |
| Engine speed                  | : 1800RPM                        |
| Bore & Stroke                 | : 130 × 157 mm                   |
| Displacement                  | : 12.5 L                         |
| Compression ratio             | : 16.3:1                         |
| Fuel consumption at 100% load | : 40 L/h                         |
| Type                          | : In line, 6 cylinders, 4 stroke |
| Aspiration                    | : A-AFTERCOOLED                  |
| Governor                      | : ECU                            |
| Starting method               | : DC 24V                         |
| Cooling method                | : Water cooled by radiator       |

#### **ALTERNATOR DATA:**

|                  |                |              |
|------------------|----------------|--------------|
| Alternator model | : ECO38 3L4A   | HCI 4E       |
| Alternator brand | : MECC         | STAMFORD     |
| Rated power      | : 336kW/420KVA | 320kW/400KVA |
| Frequency        | : 60HZ         |              |

|                  |                                                                |
|------------------|----------------------------------------------------------------|
| Speed            | : 1800RPM                                                      |
| Voltage          | : 440/254V (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 |

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\*Droop Kit for synchronizing work  
\*Anti Condensation Heater  
\*Paralleling System

\*PMG excitation  
\*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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