

## Technical Specification for Perkins Industrial Type Generator Set

### Prime Power 48KW /60KVA TPD60P5

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

|                         |                              |
|-------------------------|------------------------------|
| Generator set model     | : TPD60P5                    |
| Generator rated power   | : 48KW /60KVA                |
| Generator standby power | : 52.8KW /66KVA              |
| Rated frequency         | : 50HZ                       |
| Rated voltage           | : 400/230V (Can be adjusted) |
| Rated speed             | : 1500RPM                    |
| Fuel consumption        | : 13.9 L/h                   |
| Open type size          | : 1530 × 750 × 1300 MM       |
| Silent type size        | : 2212 × 1006 × 1202 MM      |
| Open type weight        | : 770 Kg                     |
| Silent type weight      | : 1500 Kg                    |

#### **ENGINE DATA:**

|                               |                                  |
|-------------------------------|----------------------------------|
| Engine model:                 | : 1103A-33TG2                    |
| Engine brand                  | : PERKINS                        |
| Engine rated power            | : 55KW/68.75KVA                  |
| Engine standby power          | : 61KW/76.25KVA                  |
| Engine speed                  | : 1500RPM                        |
| Bore & Stroke                 | : 105 × 127 mm                   |
| Displacement                  | : 3.3 L                          |
| Compression ratio             | : 17.25:1                        |
| Fuel consumption at 100% load | : 7.9 L/h                        |
| Type                          | : In line, 3 cylinders, 4 stroke |
| Aspiration                    | : TURBOCHARGER                   |
| Governor                      | : Mechanical                     |
| Starting method               | : DC 12V                         |
| Cooling method                | : Water cooled by radiator       |

#### **ALTERNATOR DATA:**

|                  |               |            |
|------------------|---------------|------------|
| Alternator model | : ECP32 2M4B  | UCI 224E   |
| Alternator brand | : MECC        | STAMFORD   |
| Rated power      | : 50 kW/63KVA | 48kW/60KVA |
| Frequency        | : 50HZ        |            |
| Speed            | : 1500RPM     |            |

|                  |                                                                |
|------------------|----------------------------------------------------------------|
| Voltage          | : 400/230V (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)**

DSE6020



#### **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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