



## Technical Specification for Perkins Marine Type Generator Set

### Rated Power 16KW/20KVA TPM20HE

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

|                 |                          |
|-----------------|--------------------------|
| Model           | : TPM20HE                |
| Rated power     | : 16KW/20KVA             |
| Standby power   | : 17.6KW/22KVA           |
| Rated voltage   | : 400V (Can be adjusted) |
| Rated frequency | : 50HZ                   |
| Dimension       | : 1230x720x960 MM        |
| Weight          | : 496KG                  |

#### **ENGINE DATA:**

|                |                                  |
|----------------|----------------------------------|
| Brand          | : Perkins                        |
| Model          | : 422GM                          |
| Rated power    | : 18.4KW/23KVA                   |
| Standby power  | : 20.2KW/25.25KVA                |
| Rated speed    | : 1500RPM                        |
| Bore*Stroke    | : 84*100MM                       |
| Displacement   | : 2.2L                           |
| Type           | : In-line,4 cylinders,4 stroke   |
| Aspiration     | : Natural aspiration             |
| Cooling system | : Sea water heat exchange cooled |
| Fuel system    | : Indirect injection             |
| Speed governor | : Electric/Mechanic              |
| Starter        | : DC12V electric                 |

#### **ALTERNATOR DATA:**

|                  |                              |                 |
|------------------|------------------------------|-----------------|
| Brand            | : STAMFORD                   | : MARATHON      |
| Model            | : PM1 44E                    | : MP-H-16-4     |
| Rated power      | : 17.7KW/22.1 KVA            | : 16.8KW/21 KVA |
| Rated speed      | : 1500RPM                    |                 |
| Rated voltage    | : 400V (Can be adjusted)     |                 |
| Rated frequency  | : 50HZ                       |                 |
| Type             | : Brushless,self-excited,AVR |                 |
| Protection class | : IP23                       |                 |
| Insulation       | : H                          |                 |
| Phase&wire       | : 3P3W                       |                 |
| Power factor     | : 0.8(lagging)               |                 |

### **CONTROL SYSTEM DATA:**

#### **LOCAL MARINE CONTROL PANEL (ComAp Control)**

Local mounted graphical display control panel consisting:

o Control: Emergency stop button

Simple engine Start/Stop

Selector switch Local/Remote (Remote is for MSB operation, motorise potentiometer not included)

o Monitoring: Lubricating oil pressure

Water temperature

Engine speed (rev/min-RPM)

Running hours

o Protection: Lubricating oil pressure

Water temperature

Overspeed protection with magnetic pick-up

Control panel to engine wiring



### **SCOPE OF SUPPLY:**

|                                                     |       |
|-----------------------------------------------------|-------|
| Marine diesel generator                             | 1 Set |
| Control system                                      | 1 Set |
| Muffler                                             | 1 Pcs |
| Maintenance-free battery DC24V and connection wires | 1 Set |
| Flange                                              | 1 Pcs |
| Bellows                                             | 1 Pcs |
| Standard maintenance tool                           | 1 Set |

### **OPTION:**

|                           |                                   |
|---------------------------|-----------------------------------|
| *Silent canopy            | *Wet typel exhaust muffler        |
| *Water heater             | *Oil heater                       |
| *Oil-water separator      | *Droop Kit for synchronizing work |
| *PMG excitation           | *Remote Control panel             |
| *Anti Condensation Heater | *Paralleling System               |

**DOCUMENTATION:**

|                                                |       |
|------------------------------------------------|-------|
| Engine documents including CCS certificate     | 1 Set |
| Alternator documents including CCS certificate | 1 Set |
| Control system documents                       | 1 Set |
| Generator set operation&manual                 | 1 Pcs |
| Generator set testing report                   | 1 Pcs |
| Electric drawing                               | 1 Set |
| Generator set CCS certificate                  | 1 Pcs |

**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. We inspect marine generator set with CCS rules.

**WARRANTY:**

18 months starting from the date on which the goods arrive at the destination port or 12 months after the vessel delivery to the shipowner whichever comes first.

**Contact Us****TONTEK POWER LIMITED.**

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Please contact the salesman before ordering.

***-Green Power,Power with our heart!-***