TMG POWER

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# RICARDO DIESEL GENSET

RICARDO

## TMGR-50

| Group | | Standby Power | Prime Power |
|---|---|---|---|
| Power | kVA | 50 | 45.4 |
| Power | kW | 40 | 36.3 |
| Engine Speed | rpm | 1500 | |
| Standard Voltage | V | 400 | |
| Power Factor | Cos ϕ | 0,8 | |

## Continuous Power

The maximum power which a generating set is capable of delivering continuouslywhilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

## Standby Power

The maxpower available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utilitypower outage or under test conditions for up to 200 hrs of operation per year under average of 70%load.Overloading isn't permissible.

## Prime Power

The maximum power which a generating set is capable of delivering continuouslywhilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

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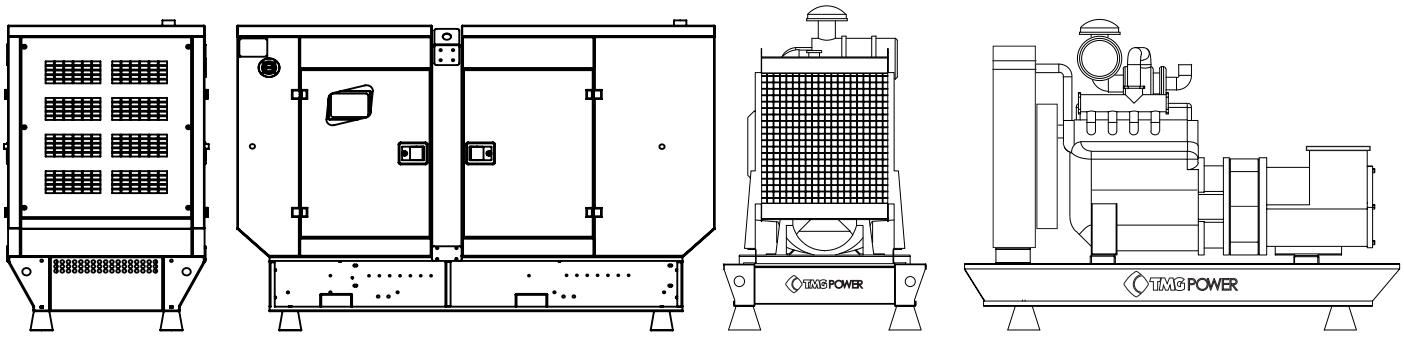
## Engine Properties

| | | |
|---|---|---|
| **Brand** | | RICARDO |
| **Model** | | ZH4100ZD |
| **Standby** | kW | 46.2 |
| **Prime** | kW | 42 |
| **Cylinder Displacement** | lt | 3.6 |
| **Number of Cylinders / Type** | mmxmm | 4 / In line |
| **Bore x Stroke** | | 100x115 |
| **Compression Ratio** | | 17:1 |
| **Governor Type** | | Mechanical |
| **Idle Speed** | rpm | 1500 |
| **Aspiration** | | Turbocharged |
| **Injection Type** | | Direct Injection |
| **Cooling system** | | Liquid Cooled |
| **Fuel Consumption %100** | lt/h | 11.5 |
| **Fuel Consumption %75** | lt/h | 8,6 |
| **Fuel Consumption %50** | lt/h | 5.7 |
| **Oil Capacity** | lt | 13.3 |
| **Cooling Liquid Capacity** | lt | 14 |
| **Battery Voltage** | V | 12 |
| **Battery Capacity** | A | 60 |

## Alternator Properties

| | | |
|---|---|---|
| **Output Voltage** | V | 230/400 |
| **Frequency** | HZ | 50 |
| **Automatic Voltage Regulation** | ±% | 0,5 |
| **Phase** | | 3 |
| **Pole** | | 4 |
| **Overload** | | 1 Hour %110 |
| **Voltage Regulation** | | ±%1 |
| **Power Factor** | Cosϕ | 0,8 |
| **Warning System** | | Self Alert |
| **AVR Model** | | Sx460 |
| **Total Harmonic Losing** | | ≤%3 |
| **Connecting Type** | | Star |
| **Protection Class** | | IP 23 |
| **Isolation Class** | | H |

## Dimensions




## Canopied

| | | |
|---|---|---|
| **L x W x H** | mm | 2300x950x1560 |
| **Weight** | kg | TBA |
| **Fuel Tank Capacity** | lt | 140 |

## Open Set

| | | |
|---|---|---|
| **L x W x H** | mm | 2000x950xTBA |
| **Weight** | kg | TBA |
| **Fuel Tank Capacity** | lt | 140 |

## Standard Specification

Some standard equipments that TMG POWER provides with generator sets;

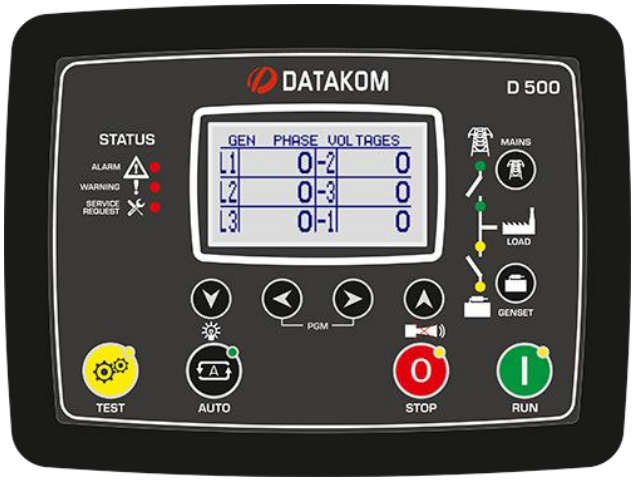
- 50°C cooland radiator
- Flexible fuelpipes and oil drain valve
- Engine jacket heater
- 4 pole synchronous type self-excited brushless alternator
- Battery and wires
- Entegrated fuel tank
- User and maintenance manual
- Oil and antifreeze
- Datakom D-500 controller
- Battery charger
- Electrical circuit diagram

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# TMGR-50




- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- 3 configurable service alarms
- Both CANBUS-J1939 & MPU
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual “speed fine adjust” on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarm
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset powercounters
- Mains power counters
- Fuel filling counters
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- Easy USB firmware upgrade
- IP 65 rating with optional gasket

## Optional Specification

Some Optional Equipments that TMG POWER provides with generator Sets;

- Auto refueling system
- Extra fuel tank , coil heaters
- Remote radiator
- Syncronization system
- Circuit breaker
- Special soundproof canopies
- Siesmic solutions
- Trailer
- Remote control panel
- Automatic transfer switch

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