



**75** KVA  
**RICARDO**

| GENERAL FEATURES       |                 | PRIME   | STANDBY |
|------------------------|-----------------|---------|---------|
| Power                  | KVA             | 68      | 75      |
| Power                  | KW              | 52      | 58      |
| Power                  | (cos Phi=0,8) A | 98      | 108     |
| Standard Voltage       | V               | 400/230 |         |
| Revolutions per minute | r.p.m           | 1500    |         |
| Rated at power factor  | Cos Phi         | 0,8     |         |

#### STANDBY POWER;

Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

#### PRIME POWER;

Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. 10% over load capability is available.



#### STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel
- Dry type replaceable air filter
- Radiator capable of cooling up to 50 ° C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 Poles, synchronize, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

#### OPTIONAL FEATURES

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer / Land transport
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system  
(Automatic / Manual )
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level  
and Remote control

## ENGINE SPECIFICATION

|                                 |            |               |
|---------------------------------|------------|---------------|
| Brand                           |            | RICARDO       |
| Model                           |            | ZH4105ZLD     |
| Engine Standby Power            | (kWm / hp) | 61/83         |
| Revolutions Per Minute          | (r.p.m.)   | 1500          |
| Total Volume                    | (L)        | 4.43          |
| Number of Cylinder              |            | 4 In Line     |
| Bore x Stroke                   | (mm x mm)  | 102 x 115     |
| Compression Rate                |            | 17:01         |
| Governor Type                   |            | MECHANICAL    |
| Cooling System                  |            | TURBO CHARGER |
| Spray Shape                     |            | DIRECT        |
| Cooling Shape                   |            | WATER COOLED  |
| Electric System                 | (VDC)      | 12            |
| Lubrication Oil Capacity        | (L)        | 14            |
| Engine Coolant Capacity         | (L)        | 12            |
| Fuel Tank                       | (L)        | 176           |
| Maximum Exhaust Gas Temperature | (°C)       | 600           |
| Maximum Exhaust Gas Flow        | (m3/h)     | 3.97          |
| Maximum Allowed Back Pressure   | (kPa)      | 4             |
| Cooling Air Flow                | (m3/mn)    | 174           |
| Fuel Consumption 50%            | (L/h)      | 7.1           |
| Fuel Consumption 75%            | (L/h)      | 10.9          |
| Fuel Consumption 100%           | (L/h)      | 14.3          |

\*Replaceable cylinder jacket \* Dry type replaceable oil filter \*Heat –resistant radiator for 50 °C

## ALTERNATOR SPECIFICATIONS

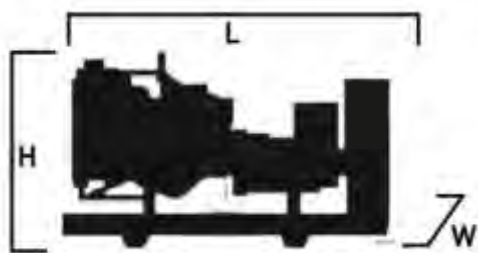
|                                |          |                  |
|--------------------------------|----------|------------------|
| Output Voltage                 | (V)      | 400/230          |
| Frequency                      | (Hz)     | 50               |
| Stationary Voltage Regulation  | (±)      | 1 %              |
| Short Circuit Current          |          | > 300 %          |
| Insulation                     |          | H                |
| Protection                     |          | IP 23            |
| Efficiency                     | (%)      | 90.7             |
| Overloading                    |          | %110 FOR 1 HOURS |
| Power Factor                   | (cos Ph) | 0.8              |
| Total Harmonic Distortion Rate |          | THF < 2 %        |
| Connection Type                |          | STAR             |
| Number Of Pole                 |          | 4                |
| Number Of Bearing              |          | SINGLE           |

\*4 Poles, Self – Excitation and Self-Cooled , Brushless , Synchro type alternator \*Electronic type automatic voltage regulator [ AVR ]

### CONTROL PANEL SPECIFICATION

- 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
- 16 Amp / 250V ŞK / JK outputs
- 8 configurable digital inputs
- 8 configurable digital outputs
- 3 configurable analogue inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Outputs expandable to 40
- Inputs expandable to 40
- 4 configurable analog inputs
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal
- Manual “speed fine adjust”
- 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 alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Mains power counters
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with optional gasket

### SPECIFICATION WITHOUT CABIN



|                    |    |      |
|--------------------|----|------|
| Length ( L )       | mm | 2500 |
| Height ( H )       | mm | 1600 |
| Width ( W )        | mm | 1000 |
| Wet weight         | kg | 1000 |
| Fuel Tank Capacity | L  | 150  |

### SPECIFICATION WITH CABIN



|                    |    |      |
|--------------------|----|------|
| Length ( L )       | mm | 2500 |
| Height ( H )       | mm | 1750 |
| Width ( W )        | mm | 1000 |
| Wet weight         | kg | 1260 |
| Fuel Tank Capacity | L  | 150  |

