



| GENERAL FEATURES | | PRIME | STANDBY |
|------------------------|-----------------|---------|---------|
| Power | KVA | 67.5 | 75 |
| Power | KW | 54 | 60 |
| Power | (cos Phi=0,8) A | 97.2 | 108 |
| Standard Voltage | V | 400/230 | |
| Revolutions per minute | r.p.m | 1500 | |
| Rated at power factor | Cos Phi | 0,8 | |

STANDBY POWER;

It is the limited time operating power under variable load. Used as backup power at mains power failure. Overloads are not allowed.

PRIME POWER;

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours.



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 / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control monitoring system



ENGINE SPECIFICATION

| | | |
|---------------------------------|------------|---------------------------|
| Brand | | RICARDO |
| Model | | ZH4105ZLD1 |
| Engine Standby Power | (kWm / hp) | 65/87.17 |
| 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 INTERCOOLED |
| Spray Shape | | DIRECT |
| Cooling Shape | | WATER COOLED |
| Electric System | (VDC) | 12 |
| Lubrication Oil Capacity | (L) | 14 |
| Engine Coolant Capacity | (L) | 12 |
| Fuel Tank | (L) | 160 |
| Maximum Exhaust Gas Temperature | (°C) | 600 |
| Maximum Exhaust Gas Flow | (m3/h) | 3.97 |
| Maximum Allowed Back Pressure | (kPa) | 4 |
| Cooling Air Flow | (m3/min) | 174 |
| Fuel Consumption 50% | (L/h) | 7 |
| Fuel Consumption 75% | (L/h) | 11 |
| Fuel Consumption 100% | (L/h) | 15 |

* 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 | (%) | 92.4 |
| 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 | 2200 |
| Height (H) | mm | 1500 |
| Width (W) | mm | 900 |
| Wet weight | kg | 940 |
| Fuel Tank Capacity | L | 75 |

SPECIFICATION WITH CABIN



| | | |
|--------------------|----|------|
| Length (L) | mm | 2500 |
| Height (H) | mm | 1700 |
| Width (W) | mm | 1000 |
| Wet weight | kg | 1285 |
| Fuel Tank Capacity | L | 160 |