



90 KVA
RICARDO

GENERAL FEATURES		PRIME	STANDBY
Power	KVA	81	90
Power	KW	65	72
Power	(cos Phi=0,8) A	119	132
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 / Manuel)
- Analogue indicators
- 1 - 3 Phase switch plugs
- Alarm system for fuel level
and Remote control

ENGINE SPECIFICATION

Brand		RICARDO
Model		ZH4105ZLD1
Engine Standby Power	(kWm / hp)	82,5/110
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 In Line
Bore x Stroke	(mm x mm)	105 x 135
Compression Rate		17:00
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER
Spray Shape		DIRECT
Cooling Shape		WATER COOLED
Electric System	(VDC)	12/24
Lubrication Oil Capacity	(L)	14
Engine Coolant Capacity	(L)	12
Fuel Tank	(L)	190
Maximum Exhaust Gas Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	5.31
Maximum Allowed Back Pressure	(kPa)	4
Cooling Air Flow	(m3/mn)	174
Fuel Consumption 50%	(L/h)	8.9
Fuel Consumption 75%	(L/h)	13.5
Fuel Consumption 100%	(L/h)	18

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

ALTERNATOR SPECIFICATIONS

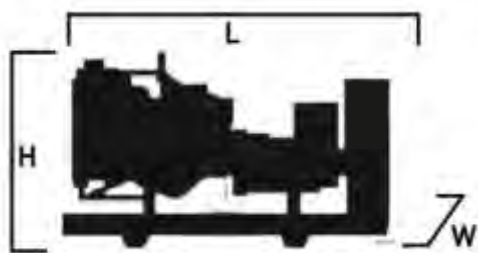
Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	90.9
Overloading		%110 FOR 1 HOURS
Power Factor	(cos Ph)	0.8
Total Harmonic Distortion Rate		THF < 2 %
Connection Type		STAR
Number Of Pole		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

