

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.

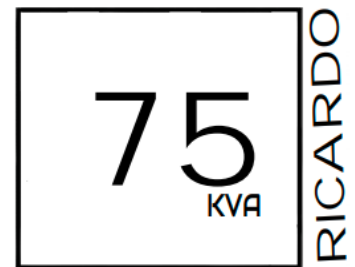
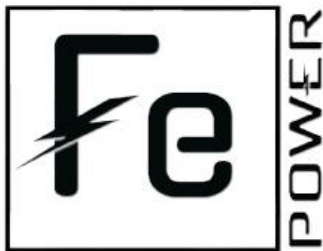


#### STANDARD FEATURES

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



## ENGINE SPECIFICATION

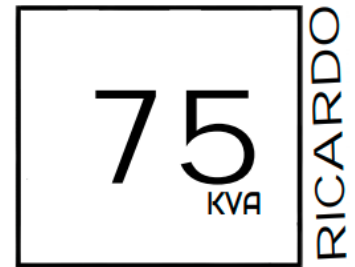
Brand		RICARDO
Model		ZH4105ZLD
Engine Standby Power	(kWm / hp)	61/83
Revolutions Per Minute	(r.p.m.)	1500
Total Volume	(L)	4.43
Number of Cylinder		4 In Line
Bore x Stroke	(mm x mm)	102 x 115
Compression Rate		17:01
Governor Type		MECHANICAL
Cooling System		TURBO CHARGER
Spray Shape		DIRECT
Cooling 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

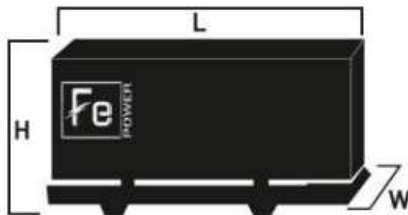
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16 Amp / 250V  $\Phi$ K / 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
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- 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