



### RICARDO Diesel Engine Generating Set

#### Group

Power ( Standby kva / kw )	110 kva 88 kw
Power ( Prime kva / kw )	99 kva 79 kw
Dimension without canopy	900 x 2200 x 1700
(Width / Length / Height) mm	
Dimension with canopy	1100 x 2700 x 1800
(Width / Length / Height) mm	
Weight without canopy	kg 1170
Weight with canopy	kg 1550

#### Diesel Engine

Brand	RICARDO
Model	R6105 ZD
Engine Power ( Standby kw )	kw/hp 92,4 / 124
Engine Power ( Prime kw )	kw/hp 84 / 113
Revolution per minute	rpm 1500
Cycle	4 stroke
Total displacement	lt 6.49
Number of cylinders	6 single line
Bore x Stroke	mm x mm 105 x 125
Compression ratio	16:1
Governor Type	Mechanic
Induction of rotation	Supercharge
Injection	Direct injection
Direction of rotation	Anti- clockwise when faced flywheel
Cooling	Water cooled
Electrical System	VCD 24
Fuel consumption ( Full load )	lt/h 19.7
Fuel consumption ( %50 load )	lt/h 9.6
Fuel tank capacity	lt/h 160



### Technical Specification

#### Engine

- RICARDO water cooled heavy duty diesel engine.
- 4 stroke, water cooled 1500 rpm
- 24 Volt DC starter and charge alternator
- Dry type disposable air filter
- Tropical type radiator
- A capacity to cool up to 50 °C
- Natural aspiration or Turbo intercooler direct injection
- Flexible fuel pipes and oil discharging
- Engine jacket water heating

#### Alternator

- Complies with VDE 0530, IEC34-1, IEC 60034-1, NEMA MG 1.22 standards
- 4-pole, synchron type, single bearing, brushless, star-connected
- Standard voltage 230/400 volt 50 Hz
- IP23 protection class
- Self-excitation
- Automatic voltage regulator (AVR)
- 300% Short circuit resistance with 10 seconds

#### Sound-proof canopy

- Special design for minimizing acoustic level
- Special type muffler and heat insulation
- Acoustic insulation with rot-proof, moisture-repellent and non-flammable material

#### Chassis

- Mounted on the steel base chassis
- Fuel tank is located in the chassis
- Mechanical fuel indicator
- Rubber brackets that prevent vibration

#### Control Unit

- DKG 307 Automatic control panel
- Ammeter, Voltmeter, Frequency meter
- Generator active power measurement
- Operation hourmeter
- Engine oil pressure measurement
- Relays
- Emergency stop button
- Remote start operation available
- Ignition switch
- Mains / Generator selector switch

- For Automatic Version*
- 2 pcs. contactor in suitable amperage
  - Battery charger
  - Automatic / Manual selector switch

- For Manual Version*
- Thermic magnetic switch with 3 pole

#### Alternator

Alternator Type	Brushless, direct - coupled, star - connected self alerting, static voltage regulator
Power ( Stanby kva / kw )	110 kva 88 kw
Power ( Prime kva / kw )	99 kva 79 kw
Output Voltage	v 231 / 400 V
Regulation	± 0,5 %
Frequency	Hz 50
Revolution per minute	rpm 1500 d/d
Short circuit current	%300 ( 10 sec )
Insulation	H
Protection	IP 23
Efficiency	90 %
Overloading	1 for one %110, 2 sec. for %150
Power factor	cos Q = 0,8
Harmonic distortion rate (unloaded)	<% 3

