

RICARDO Technical Specifications



ENGINE

- RICARDO series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled /turbocharged & air to water charge cooled
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extention pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

QUALITY STANDARD

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1.

EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid.

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit braker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water seperator filter
- PMG warning system

CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

AUTOMATIC CONTROL PANEL

- LCD display screen
- Battery charger

GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed



Easy maintenance canopy design

Refilling from the outside of the canopy

Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



- Over current load

- USB port & RS-485 output

- Hardware and materials needed

- High & low genset voltage
- Start/stop failure
- Low radiator water level

RICARDO Series Diesel Generator Sets 82-125 kVA

MODEL				E RC XX 0082	E RC XX 0094	E RC XX 0110	E RC XX 0125
GROUP	GEN-SET POWER	STAND BY	kVA	82	94	110	125
			kW	65,6	75,2	88	100
		PRIME	kVA	75	85	100	114
			kW	60	68	80	91,2
	CANOPY DIMESNION (W x L x H) mm			1000x2600x1410	1000x2600x1510	1100x3050x1690	1100x3050x1690
	CANDPY WEIGHT kg			1245	1363	1883	1883
	OPEN DIMENSION (W x L x H) mm			1000x2200x1410	1000x2200x1510	1100x2600x1690	1100x2600x1690
	OPEN WEIGHT			1048	1085	1630	1630
ENGINE	BRAND			RICARDO	RICARDO	RICARDO	RICARDO
	ТҮРЕ			N4105ZLDS	R4105BZLDS	R6105ZDS	R6105ZLDS
	POWER	STAND BY	kW	73	80	93	111
		PRIME	kW	66	72	84	100
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (It)			4,15	4,67	6,49	6,49
	NUMBER DF CYLNDERS			4 IN LINE	4 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			105×120	105×135	105×125	105×125
	COMPRESSION RATIO			17 : 1	17 : 1	17 : 1	17 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED	TURBOCHARGED - INTERCOOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER
	FUEL	%100 PRIME POWER		17.5	19,1	22,2	25.6
	CONSUMPTION	%75 PRIME POWER		13,1	14.3	16.7	19.2
	lt / h	%50 PRIME POWER		8.7	9,5	11,1	12,8
	TOTAL LUBRICATION SYSTEM CAPACITY (It)			13	16	17	17
	TOTAL COOLANT CAPACITY (It)			13	16	23	23
	FUEL TANK CAPACITY (It)			139	210	275	275

Emsa reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

