

RICARDO RR75

1500 r.p.m.50 Hz.

231/400 VAC

Standby Power (ESP)

Standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable ofdelivering in theevent of a utility power outage orunder test conditions for up to 500 hours of operation per year under average of 70% load. Overloading is not permissible

Prime Power (PRP)

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hours.



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Technical information and values are according to
ISO8528, ISO3046,NEMA MG1.22, IEC 600341, BS
49995000, VDE 0530 standards. Producing with
ISO9001, CE standards.

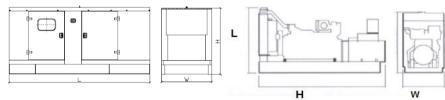
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Power Output Ratings		50 Hz. / 400 V		
Standby Power (ESP)	kVA	75		
Standby Fower (ESF)	kW	60		
Prime Power (PRP)	kVA	68		
Fillie Fower (FRF)	kW	54		

Engine							
Manufacturer		RICARDO					
Model		R4105ZD					
No of Cylinder / Configuration		4 IN-LINE					
Displacement It		4,5					
Bore / Stroke	mm	108X125					
Compression Ratio		17:1					
Aspiration		TURBOCHARGED					
Governor Type		MECHANICAL					
Cooling System		WATER					
Coolant Capacity (with radiator)	lt	19					
Lubrication Oil Capacity	lt	13					
Electrical System	VDC	12					
Speed / Frequency	rpm	1500 rpm / 50 Hz					
Engine Prime Power (with fan)	kWm	56					
	100%	14,6					
Fuel Consumption It/h	75%	10,9					
	50%	7,7					
Exhaust Outlet Temperature	°C	520					
Exhaust Gas Flow	m³/min	13					
Intake Air Flow	m³/min	3,9					
Radiator Cooling Air	m³/min	126					

Alternator						
Manufacturer		ТРН				
Model		EG225S-50N				
Power Factor		0,8				
No of Bearing		SINGLE				
No of Poles		4				
No of Leads		12				
Voltage Regulation (Steady State)		± %0,5				
Insulation		Н				
Degree of Protection		IP23				
Excitation System		AVR, BRUSHLESS				
Connection Type		STAR				
Total Harmonic Content (No Load)		< %2				
Frequency	Hz	50				
Voltage Output	VAC	231/400				

DIMENSION								
	L x W x H (mm)	Weight (kg)	Fuel Tank (It)					
Canopied	2200*1000*1450	1250	145					
Open Skid	1800*1000*1300	1000	145					









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DESIGN SPECIFICATIONS

High quality, reliable and complate power unit, Compact design, Easy start and maintenance possibility, Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing, Full engineered with a wide range of options and accessories: Canopy, soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

FNGINE

Heavy duty diesel engine, Four cycle, water cooled, turbo charged or naturally aspirated and after cooled, mechanical Governor Control System, Direct injection fuel, 4 valves per cylindersystem,Replaceable wet type cylinder liners,12 V D.C. starter and charge alternator,Replaceable fuel filter, oil filter and dry element air filter,Cooling radiator and fan,Starter battery(with lead acid) including Rack and Cables, Flexible fuel connection hoses and manual oil sump drain pump, Industrial capacity exhaust silencer and steel bellows, Jacket water heater (at automatic models), Operation manuals and circuit diagram documents

ALTERNATOR

Brushless, single bearing system, 4 poles, Insulation class H, Standard degree of protection IP21, Self-exciting and self-regulating, Stator winding with 2/3 pitch, Impregnation with tropicalised epoxy varnish, close Voltage Regulation

BASE FRAME

The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame. Base frame design incorporates an integral fuel tank. The generating set can be lifted or carefully pushed / pulled by the base frame forklift pockets within base frame. Daily type fuel gauge and drain plug on the fuel tank.

CANOP

All canopy parts are designed with modular principles

Without welding assembly. Panel window, Lockable doors an each side, modular canopy can also installed at a later date

All metal canopy parts are painted by electrostatic polyester powder paint

Exhaust silencer is protected against environment influences

Thermally insulated engine exhaust system

Emergency stop push button is installed outside of canopy

To enable for lifting easy mainteneance and operation

CONTROL SYSTEM

Panel Equipments:

Control, supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1-Auto. Mains Failure Control Panel

Control Panel Equipments: Conrtol panel with TPH 309 module Static battery charger Emergency stop push button

1.1 Generating Set control module TPH 309 features:

The module is used to monitor a mains supply and automatic start a stand-by generating set.

Micro-processor based design

Monitors engine performance and AC power output

LED and LCD alarm indication

Front panel configuration of timers and alarm trip points

provides signal to change over switch panel

event logging of shutdown alarms

Remote communication via RS232 port or RS485 modbus output

easy push button control

STOP/RESET-MANUAL-AUTO-TEST-START

Operation indicators accessed by the LCD display scroll push button.

Metering via LCD Display:

Generator Volts (L-L/L-N) Generator Amps (L1-L2-L3) Generator Frequency (Hz) Engine hours run Engine oil pressure (PSI&Bar) Engine speed RPM Engine temperature (C & F) Generator kVA Generator kW Generator power factor Mains Frequency (Hz) Mains Volts (F-F/F-N)



Automatic shutdown on fault conditions

Under/Over Speed High Engine Temperature Low Oil Pressure Under/over generator volts Under/over generator frequency under/over mains frequency under/over mains voltage Low/High battery volts Fail to start Fail to stop Charge fail Over current Emergency stop CAN data fail CAN ECU fail

LED indications

Mains available Generator available Mains on load Generator on Load

2. Power Outlet Terminal Board Mounted on the Genset Baseframe



