



KP-137S (R6105AZLD) Generating set Technical Data Sheet



ISO9001:2000



*Powered by
RICARDO Engine*

R6105AZLD

STANDARD SPECIFICATION

General features:

- Composed of RICARDO diesel engine and KEYPOWER brushless alternator
- 24V DC start motor and storage battery
- Brushless, Self-excited, IP23, insulation class H alternator
- 50°C radiator as standard
- Key start panel control system as standard, digital auto-start panel is optional
- Fuel tank in base frame
- Optional open type or silent type
- All generator sets are gone through rigorous testing before being released to the market place, including 50% load, 75% load, 100% load , 110% load and all protection function (overspeed stop, high water temperature, low oil pressure, battery charging fail, emergency stop)

Genset Main Technical Data

3-PH, 50Hz@1500RPM, 220/380V (Can Be Made According To Customers' Special Requirements)

GENSET MODEL	Genset Specification					Engine Specification				Alternator Model
	KVA		Cons 100% (L/H)	dB(A) @7m	Tank (L)	Model	Cyl.	Gov.	Asp.	
	ESP	PRP								
KP-125P	137	125	32	79	280	R6105AZLD	6	M	TCA	KP274D
KP-137S	137	125	32	79	280	R6105AZLD	6	M	TCA	KP274D

1) Available in various voltages

2) To show KEYPOWER Generating Sets Model

KP-137S, it is the Standby power 137kva generation set.

KP-125P, it is the Prime power 125kva generating set.

3) ESP=Standby power standby duty, operation under variable load, without overload.

PRP=Prime power continuous duty operation, under variable load, 10% overload permissible 1/12hr.

4) E=Electronic speed governor;

M=Mechanical speed governor

5) Asp=Aspiration;

NA=Naturally Asp;

TC=Turbocharged;

TW=Turbocharged after cooled;

TCA= Turbocharged air-air after cooled

6) Technical data is subject to work test conditions

Page: 2/5 **Specifications may change without Notice**

Reliable Performance

Voltage regulation

Voltage regulation maintained within $\pm 0.5\%$ as follow:

- Power factor Between 0.8~1.0 lag
- From no load to full load, any steady load
- Speed droop variation under 4.5%

Frequency/Speed undulation

- Change load from 0-100%, Frequency/Speed Droop Ratio within 5%.
- Load from 25-100%, any steady load Frequency/Speed undulation within 0.25%

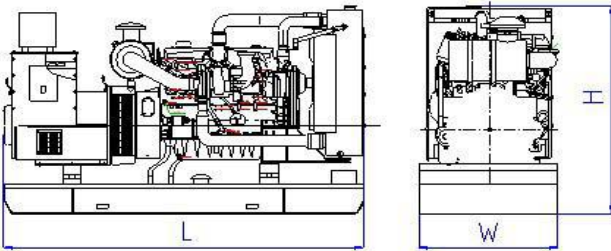
Effect factor of telecom

- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

Criterion

- ISO8528, GB/T2820
- EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ISO9001:2000 Quality Control System

Dimension and Weight

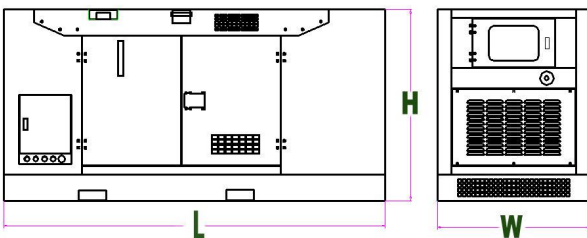


Open Type

Overall size (L*W*H)

2220*1030*1500

Weight: 2500kg



Silent Type

Overall size (L*W*H)

3210*1100*1710

Weight: 3200kg

ENGINE SPECIFICATION

RICARDO Diesel Engine

Technical Data

Engine Model	R6105AZLD
Number of Cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged Air-Air Aftercooled
Bore×Stroke (mm×mm)	105×130
Displacement (Liter)	6.75
Compression Ratio	17:1
Prime Power/Speed (kW/rpm)	120/1500RPM
Standby Power/Speed (kW/rpm)	132/1500RPM
Speed Governor	Mechanical
Cooling System	Water-cooled, 50°C radiator as standard
Speed Stability (%)	≤5%
Total lubrication system capacity (L)	17
Coolant capacity (without radiator) (L)	23
Fuel Consumption at 100% Load (L/H)	32
Starter Motor	DC24V
Start type	Electrical

Alternator SPECIFICATION

KEYPOWER Alternator (Standard)

Technical Data

Alternator Model	KP274D
Exciter type	Brushless, Self-excited
Power factor	0.8
Voltage Adjust range	≥5%
Voltage Regulation NL-FL	≤±0.5%
Insulation Grade	H
Protection Grade	IP23

Control System

1. Standard: Deepsea DSE 4520 AMF Digital Controller

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

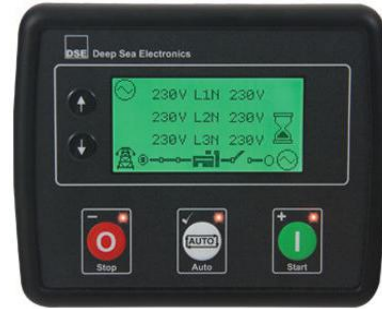
- * Automatic Start/Stop
- * Settings can be adjustable via key buttons on front panel
- * 3 start attempts failure and Automatic Crank Disconnect
- * Parameters display (V/A/Hz/Hour)
- * Engine monitoring and protection
- * Charge alternator exciting and Charge alternator fail alarm
- * Running hour counting
- * Emergency stop pushbutton
- * Alarm System: Over speed、High Engine Temperature
Low Oil Pressure、Charge Fail
- * Protection System: Over speed、High Engine Temperature、Low Oil
Pressure、Emergency Stop. And the other protection function
pre-setting

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diesel generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power. (AMF)

2. Option: Deepsea DSE7320 AMF Digital Auto Start

3. Option: ComAp AMF25 Digital Auto Start

4. Option: Deepsea DSE6120 AMF Digital Auto Start



(1) DSE4520



(2) DSE7320



(3) AMF25



(4) DSE6120