



Generator sets assembled by Jubaili Bros. S.A.L. are equipped with Perkins diesel engines. These famous engines have always proven their reliability and endurance throughout the Middle East and Africa.



FM 56710
ISO 9001-2000

ENVIRONMENT FRIENDLY

Output Ratings

Genset Model	JGP300P3 JGP330E3		JGP350P1 JGP380E1		JGP400P1 JGP440E1	
	Engine Speed	50Hz	1500rpm	1500rpm	1500rpm	1500rpm
	60Hz	1800rpm	1800rpm	1800rpm	1800rpm	1800rpm
Prime @ 50Hz	KVA	300	350	400		
	KW	240	280	320		
Standby by @ 50Hz	KVA	330	380	440		
	KW	264	304	352		
	KW	313	353	396		
Gross Engine Power @ 50Hz	HP	420	473	531		
Fuel Consumption 50 % Load	L/hr	34.1	39.5	44.1		
	100 % Load	L/hr	63.9	75.2	85.2	

Technical Data

Engine Model	2306C-E14TAG1		2306C-E14TAG2		2306C-E14TAG3	
Number of Cylinders		6 in line	6 in line	6 in line	6 in line	6 in line
Cubic Capacity	Lit	14.6	14.6	14.6	14.6	14.6
	Cu.In	890.9	891	891	891	891
Bore	mm	137	137	137	137	137
	in	5.4	5.4	5.4	5.4	5.4
Stroke	mm	165	165	165	165	165
	in	6.5	6.5	6.5	6.5	6.5
Fuel Tank Capacity	Lit	820	782	782	782	782

Dimensions & Weights

Length	mm	3450	3450	3450
Width	mm	1000	1000	1000
Height	mm	2000	2000	2000
Weight	kg	3210	3210	3350

STANDARD SPECIFICATIONS

Perkins Powered Generator Sets- 300 KVA To 400 KVA

1- OUTPUT RATINGS

Output ratings are listed on each generator set single sheet specifications. The generator set is normally supplied connected to 380 or 415 Volts, 3 Phase, 50 Hz, but alternative voltrages/frequencies are available.

2.ENGINE

Perkins heavy-duty industrial diesel engine. Made in UK. Technical details are contained on the single sheet specifications.

2.1 Governor

Mechanical compliant ISO 8528, G2, (135-550E KVA Electronic Governor ISO 8528, G3).

2.2 Electrical System

24 Volts Dc. Energized to run shutdown solenoid oil, pressure and water temperature shutdown switches and gauges senders.

24 Volt system with battery Charging Alternator. Axial type starter motor, high capacity maintenance free lead acid starting battery, battery rack mounted on the generator set base frame and heavy duty interconnecting cable with terminations.

3. COOLING RADIATOR.

Radiator and cooling fan complete with protection guards designed to cool the engine at temperature up to 52°C (125°F).

4. ENGINE FILTRATIONS SYSTEM

Cartridge type dry air filters, Cartridge type fuel filters and full flow lube oil filters. All filters have replaceable elements.

5. EXHAUST SYSTEM

Heavy duty industrial capacity exhaust silencer.

6. ALTERNATOR STANDARD FG Wilson

Screen protected and drip-proof, self exciting, self regulating brushless alternator with fully interconnected damper windings, ICO6 cooling system and sealed-for - life bearing. 12 wire reconnectable windings, provide a wide range of 3 phase voltages. Note: On models P800 and above, the altrenator is 6 wire.

6.1 Insulation System

The insulations system is Class H. All windings are impregnated in either a triple dip thermosetting moisture, oil and acid resisting polyester varnish or vacuum pressure impregnated with, a special polyester resin. Heavy coat of antitracking varnish additional protection against moisture or condensation.

6.2 Automatic Voltage Regulator

The fully sealed automatic voltage regulator maintains the voltage regulation (steady state) @ $\pm 0.5\%$ Nominal adjustment by means of a trimmer incorporated in the AVR

6.3 Waveform distortion THF AND TIF factors

The total distortion of the voltage waveform with open circuit between phases or phase and neutral in the order of 1.8 on a 3 phase balanced harmonic-free load. The total distortion is in the order of 3.5% Machines are designed to have a THF less than 2% and a TIF less than 50. A2/3 pitch factor is standard

on all stator windings.

6.4 Radio Interference

Suppression is in line with the provisions of BS800 and VDE Class G and N.

6.5 Motor Starting

An overload capacity equivalent to between 160% and 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

7. MOUNTING ARRANGEMENT

7.1 Baseframe

The complete generator set is mounted, as a whole, on a heavy duty fabricates, welded steel baseframe. The baseframe incorporates specially designed daily Fuel tank.

7.2 Coupling

The engine and alternator, are directly coupled by means of an SAE flange so that there is no possibility of misalignment after prolonged use. The engine fly-wheel is flexibly coupled to alternator rotor and a full torsional analysis has been carried out to guarantee no harmful vibration will occur in the assembly.

7.3 Anti - vibration Mounting Pads

Anti-Vibration pads are affixed between engine/alternator feet and the baseframe thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.

7.4 Safety Guard

The fan, fan drive and battery charging alternator drive are fully guarded for personnel protection. A stone guard protects the radiator core from accidental damage.

8. FUEL SYSTEM

On all sets the baseframe design can be incorporated with an intergaral fuel tank with a capacity of approx., 8 hours. The tank is supplied complete with fill cap breather, fuel feed, and return lines to engine and drain plug.

9. CONTROL SYSTEM

9.1 Manual Start Control Panel

Set mounted Keystart panel in a vibration isolated sheet steel enclosure with a hinged lockable door. The control panel is equipped as follows:

a. Instruments

Voltmeter

Ammeter Frequency Meter

Hours Run Meter

Coolant Temperature Gauge

Oil Pressure Gauge

Battery Condition Voltmeter

b. Controls Start/Stop Keyswitch

Voltmeter Phase Selector Switch, 7 Pos

Ammeter Phase Selector Switch, 4 Pos

c. Shutdown Protection Devices, with indicators for High Coolant Temperature

Low Oil Pressure

d. No multi pin collector KC&AC wire looms are

utilized in industrial type.

9.2 Circuit Breaker

3 Pole moulded case circuit breaker mounted on the generator in a vibration isolated sheet steel box with adequate access for incoming and outgoing cables, Circuit breakers rated above 1250 Amps are mounted in floor standing cabinets.

10. DOCUMENTATIONS

A full set of operation and maintenance manuals Circuit wiring diagrams, and commissioning/fault finding instruction leaflets.

11. GENERAL ARRANGEMENT

The generator set designed is/and constructed for installation in a weatherprotected building. Various types of weatherproof and sound attenuated enclosures are available.

12. FACTORY TESTS

The generator set is load tested before dispatch. All protective devices, control functions and site load conditions are simulated and the generator and it's systems checked, proved and then passed for dispatch.

13. EQUIPMENT FINISHING

All metal sheet components are fully degreased and painted with one coat of primer 2 coats of synthetic paint to ensure maximum scuff resistance and durability. Same treatment for alternator and Engine.

14. QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, 2S5514 IEC 34, VDE0530, and NEMA MG-122. JB is ISO 9001 Certified.

15. ADVANTAGES

Electronic Fuel injection system (P300P1 - P440E) is monitored by an ECM and has the following advantages:

High Performance, more responsive under impact load, excellent turnkey start in all weather conditions, reduced fuel consumption, low smoke and emission, automatic altitude compensation, high injection pressure and less noise and vibration.

16. WARRANTY

All equipments are guaranteed for a period of 12 months.

17. ORIGIN

Engine: Perkins made in UK.

Alternator: Standard FG Wilson or Stamford UK.

Assembler: Jubaili Bros. sal (Lebanon)

18. RATINGS DEFINITION

Prime Power is applicable for supplying continuous electrical power (at variable load in lieu of commercially purchased power). There is no limitations to the annual hours of operation and at prime power, sets can supply 10% overload power for hour in 12 hours period.

Standby Power is applicable for supplying continous electrical power (at variable load) in event of a utility power failure. No overload is permitted on these ratings.

The alternator on these models is peak continuous rated (as defined in ISO8528-3).

ISO 9001 REGISTERED

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