A.R.JUBAILI&CO



J450 KVA Genset

Output Ratings		
Generating Set Model	Prime	Standby
380-415 V, 3ph, 50 Hz, 1500rpm	455 kVA	500 kVA
	364 KW	400 KW

Rating Defenitions

Prime Power - Model J450

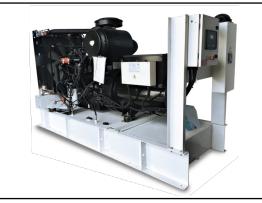
These ratings are applicable for supplying continuous electrical power in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply %10 overload power for 1 hour in 12 hours.

Standby Power - Model J450

These ratings are applicable for supplying continuous electrical power in event of a utility power failur. No overload is permitted on these ratings. The alternator on this model is peak continuous rated.

ALTERNATOR DATA	
Make	Leroy Somer
Model	LSA47.2 M7 / TAL047C
No. of bearings	1
Insulation class	н
Total Harmonic Content	at no load <3.5% - on load <5%
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (nº6)
AVR Model	R250/R150
Overspeed	2250 mn ⁻¹
Voltage Regulation (steady)	± 1%
Short Circuit Capacity	-

AREP & PMG Excitation System Available as Optional.



Generating set picture may include optional accessories

ENGINE / TECHNICAL DATA				
Engine Make	Per	Perkins		
Engine Model	2506A-E	2506A-E15TAG3		
Governing Type	ISO 85	ISO 8528-5 G3		
Number of Cylinders	(3		
Cylinder Arrangement	Vertica	Vertical in line		
Bore and Stroke mm	137 >	137 x 171		
Displacement / Cubic Capacity litres	15.2			
Induction System	Turbocharged and air	Turbocharged and air to air charge cooled		
Cycle	4 stroke			
Combustion System	Direct Injection			
Compression Ratio	16:1			
Rotation	Anti-clockwise, viewed on flywheel			
Cooling System	Water - cooled			
Frequency and Engine Speed	50Hz & 1500rpm			
	Prime	Standby		
Gross Engine Power kW (hp)	412 (552)	451 (605)		
Fuel Consumption @ 50% load L/hr	50	-		
@ 75% load L/hr	72	-		
Fuel Consumption @ 50% load L/hr	95	104		
Total Lubrication System Capacity litres	62	62		
Total Coolant Capacity (inc. radiator) litres	62 58	62 58		
Total Coolant Capacity (inc. radiator) litres	58	58		
Total Coolant Capacity (inc. radiator) litres Exhaust Temperature: °C	58 n/a	58 550		
Total Coolant Capacity (inc. radiator) litres Exhaust Temperature: °C Radiator Cooling Air Flow (Min): m3/sec	58 n/a 11	58 550 11		

Note: Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and higher altitudes. De-ration may apply, please consult your dealer for specific site ratings.

Dimensions and Weights				
Length cm	Width cm	Height cm	Weight* kg (wet)	
370	115	210	3777	

	Standard	Specifications	
1. ENGINE Perkins four stroke heavy duty high performance industrial engine. 2. ENGINE FILTRATION SYSTEM 0. Mide Tencher of Ten	type diesel	4. EXHAUST SYSTEM Heavy duty Industrial Exhaust S Silencer noise reduction leve Maximum allowable back pre	l 15 (dB)
Cartridge Type dry air filter. Cartridge Type fuel air filter. Full flow lube oil filter. All filters have replaceable elements. COOLING RADIATOR Radiator and cooling fan, designed to cool the engine at hi temperature	gh ambient	5. CIRCUIT BREAKER TYPE ABB 3 pole MCCB (4 pole is o	ptional)
 6. ALTERNATOR Perkins four stroke heavy duty high performance industrial engine. 6.1 INSULATION SYSTEM The insulation system is Class H. All windings are impregnated in either triple dip thermose and acid resisting polyester vanish or vacuum pressure im special polyester resin. Heavy coat of antitracking vanish additional protection agor condensation. 	tting liquid, oil pregnated with a	 6.2 AUTOMATIC VOLTAGE REGULATOR (AVR) The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at + - 0.5%. Nominal adjustment by means of a trim pot incorporated on the AVR. 6.3 MOTOR STARTING An overload capacity equivalent to 300% of the full Load. Impedance at Zero Power Factor can be sustained for 10 seconds, when AREO or PMG option is fitted. 	
MOUNTING ARRANGEMENT 7.4 SAFETY GUARDS 1 BASE FRAME The fan & fan drive along with the Battery O 1e complete Generating Set is mounted as a whole on a heavy duty Guard protected for personnel protection. bricated steel Baseframe. 8. FACTORY TESTS 2 COUPLING • The Generating set is load tested before do 1e Engine and Alternator are directly coupled by means of an SAE flange. • All protective devices control functions and simulated. The generator and its systems a 3 ANTI-VIBRATION MOUNTING PADS 9. EQUIPMENT FINISHING nti-Vibration pads are affixed between the Engine/Alternator feet and the aseframe thus ensuring complete vibration isolation of the rotating seembly. All mild steel components are fully degrease coated paint to ensure maximum scuff resist		tion. efore dispatch ons and site load conditions are terms are checked before dispatch. egreased and painted with powder	
 10. DOCUMENTATIONS Operation & Maintenance manual, circuit wiring diagrams and Commissioning / Fault finding instruction leaflets are accompanied with the Generator. 11. QUALITY STANDARDS The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VdE0530, NEMA MG 1.22 and ISO 8528. We offer a range of optional features & accessories to tailor 		 12. WARRANTY All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions. In line with continuous product development, we reserve the right to change specifications without notice. illor our generating sets to meet you power needs. 	
Generating Set Options			
Engine	Fuel options		Enclosed unit
Electronic Governor Manual Oil Drain Pump Coolant Heater and Thermostat	Fuel Water Separator Free Standing fuel tank delivered loose Bundled Retention Tank		Weather Proof Enclosure Sound Proof Enclosure Room Insulation

- Coolant Heater and Thermostat
- Exhaust Temperature Monitoring

Alternator

- Alternator Space Heater
- Auxiliary Winding

Cooling system

- Remote Radiator Cooling
- Hot and Fresh Air Ducting

Exhaust Options (open unit)

• Exhaust Silencer - Residential (Noise Attenuation 25-18 dBA) • Exhaust Silencer – Critical (Noise Attenuation 34-25 dBA)

- Bundled Retention Tank
- · Manual and/or automatic fuel pump
- Fuel Tank Level Switch
- High Fuel Level Warning
- Low Fuel Level Warning
- · Low fuel Level Shutdown

Electrical System

- Battery Charger 240 V/ 12 V, 10 A
- Analog Metering
- 4 Pole Circuit Breaker
- · Battery Isolator Switch
- Automatic Mains Failure Kit
- Manual & Automatic Transfer Switch Panel • PMG Kit.
- Load Bank

- Room Insulation
- Sand filters for tropical climate

Voltage Connections

- 440 / 254 V
- 416 / 240 V
- 400 / 230 V
- 380 / 220 V
- 220 / 127 V • 200 / 115 V
- 190 / 110 V

Genuine spares

For further information on all of the standard and optional features accompanying this product please contact your local dealer or visit www.Jubaili.com



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