A.R.JUBAILI&CO



J180 KVA Genset

Output Ratings		
Generating Set Model	Prime	Standby
380-415V, 3 ph, 50 Hz, 1500rpm	180 kVA	200 kVA
	144 KW	160 KW

Rating Defenitions

Prime Power - Model J180

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 J180

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	LSA46.2M3/TAL046B
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 (n° 6)
AVR Model	R250/R150
Overspeed	2250 mn ⁻¹
Voltage Regulation (steady)	± 1%
Short Circuit Capacity	-

AREP Excitation System Available as Optional.



Generating set picture may include optional accessories

ENGINE / TECHNICAL DATA			
Engine Make	Perkins		
Engine Model	1106A-70TAG3		
Governing Type	Mech	Mechanical	
Number of Cylinders	6		
Cylinder Arrangement	Vertical in line		
Bore and Stroke mm	105	105 x 135	
Displacement / Cubic Capacity litres	7.01		
Induction System	Turbocharged, air to air charged 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)	162.7	180.2	
Fuel Consumption @ 50% load L/hr	20.1	-	
@ 75% load L/hr	31.8	-	
Fuel Consumption @ 50% load L/hr	41.6		
Fuer Consumption @ 50% load L/m	41.0	44.6	
Total Lubrication System Capacity litres	18	44.6 18	
Total Lubrication System Capacity litres	18	18	
Total Lubrication System Capacity litres Total Coolant Capacity (inc. radiator) litres	18 21	18 21	
Total Lubrication System Capacity litres Total Coolant Capacity (inc. radiator) litres Exhaust Temperature: °C	18 21 491	18 21 491	
Total Lubrication System Capacity litres Total Coolant Capacity (inc. radiator) litres Exhaust Temperature: °C Radiator Cooling Air Flow (Min): m3/sec	18 21 491 4.7	18 21 491 4.7	

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)	
260	90	156	1660	

	Standard	Specifications	
1. ENGINE Perkins four stroke heavy duty high performance industrial engine. 2. ENGINE FILTRATION SYSTEM Cartridge Type dry air filter.	type diesel	4. EXHAUST SYSTEM Heavy duty Industrial Exhaust S Silencer noise reduction leve Maximum allowable back pre	el 12 (dB)
Cartridge Type fuel 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	id, oil 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.	
7. MOUNTING ARRANGEMENT 7.1 BASE FRAME The complete Generating Set is mounted as a whole on a fabricated steel Baseframe. 7.2 COUPLING The Engine and Alternator are directly coupled by means The Engine flywheel is flexibly coupled to the Alternator of 7.3 ANTI-VIBRATION MOUNTING PADS Anti-Vibration pads are affixed between the Engine/Alterna Baseframe thus ensuring complete vibration isolation of the assembly.	of an SAE flange. otor. tor feet and the	 7.4 SAFETY GUARDS The fan & fan drive along with the Ba Guard protected for personnel protect 8. FACTORY TESTS The Generating set is load tested b All protective devices control functions simulated. The generator and its sys 9. EQUIPMENT FINISHING All mild steel components are fully do coated paint to ensure maximum sculars 	ction. efore dispatch ons and site load conditions are tems 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 tailo 		 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. Ior 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

- 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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