



RICH MOTOR COMPANY

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RMC Sells, Builds, & Operates
Power Generators
in Emerging markets



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Data Sheet

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50HZ	150KVA/120KWe	165KVA/132KWe
220/127, 60 HZ	169KVA/135kWe	188KVA/150kWe

Ratings and Performance Data

Engine Make & Model:	Perkins 1106A-70TAG2		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA44.3L10	TAL044J	LINZ PRO 22MF/4

Control Panel	DSE6020MK2
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Base Frame	Heavy duty fabricated steel
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Circuit breaker type	3Pole MCCB LS-ABB-Schneider 300A
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Frequency	50 OR 60 Hz
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Engine Speed	1500 OR 1800rpm
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Fuel Tank Capacity	FOR OPEN TYPE	120L
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Exhaust System	50hz	60hz
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Maximum Allowable Back Pressure:		
kPa	6.0 kPa	6.54kPa

Exhaust Gas flow	m ³ /min		
	Prime	15.2	18.4
	Standby	16.3	20.4

Exhaust Gas temperature °C			
	Prime	484	502
	Standby	484	205

Prime Rating

Prime power: Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period.

A 10% overload is available for 1 hour in every 12 hours of operation. Standby power:

Variable load. Limited to 500 hours annual usage, up to 300 hours of which may be continuous running. No overload is permitted.

Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions Note:

Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A 2

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1.

Specification

Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.13 x 5.31 in
Displacement	7 litres	428 in ³
Aspiration	TURBOCHARGED AFTERCOOLED	
Cycle	4 stroke	
Combustion system	Indirect injection	
Compression ratio	16:01	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	16.5 litres	4.36 US gal
Cooling system	Water cooled	
Total coolant capacity	21 litres	5.5 US gal
Power Factor	0.8	

Technical information

Air inlet

-Mounted air filter

Fuel system

Rotary type pump

-Next generation fuel filter

Lubrication system

Wet steel sump with filler and dipstick

Spin-on full-flow lub oil filter

Cooling system

Thermostatically-controlled system with gear-driven circulation pump and belt-driven pusher fan

Mounted radiator, piping and guards

Electrical equipment

12 volt starter motor and 12 volt 65 amp alternator with DC output

Oil pressure and coolant temperature switches

12 volt shut-off solenoid energised to run

Flywheel and housing

1500/1800 rev/min

High inertia flywheel to SAE J620 size 10/11½

SAE 3 flywheel housing

Mountings

Front and rear engine mounting brackets

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Alternator Physical Data

Specially adapted to applications

The LSA 44.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

Compliant with international standards

The LSA 44.3 alternator conforms to the main international standards and regulations:

- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA / UL 1146 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 44.3 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Manufactured By Leroy Somer EU/ linz EU	LSA ¹	TAL ²	LINZ ³
Model	LSA44.3L10	TAL044J	LINZ PRO 22MF/4
No. of Bearings:	1	1	1
Insulation Class	H	H	H
Winding Pitch Code:	2/3 (wdg 6)	2/3 (wdg 6S)	2/3 (wdg 6S)
Wires:	12	6	12

Ingress Protection Rating:	IP23	IP23	IP23
Excitation System:	SHUNT	SHUNT	SHUNT
AVR Model:	R250	R120	HVR11
Short-circuit current	-	-	-
Overspeed: rpm	2250 min-1	2250 min-1	2250 min-1
Voltage Regulation: (Steady state)	± 0.5%	± 1%	± 1%
Wave Form NEMA = TIF:	< 50	< 50	< 50
Wave Form IEC = THF:	< 2%	< 2%	< 2%
Total Harmonic content LL/LN:	< 4%	< 4%	< 4%
Radio Interference:	Suppression is in line with European Standard EN55011		
Radiant Heat: kW (Btu/min)	10663	10663	10663

Alternator Performance Data	50Hz		60 HZ
	400V	480V	220/127V
Data Item	400V	480V	220/127V
Motor Starting Capability KVA	277	257	*
Short Circuit Capacity %	*	*	*
Reactances: Per Unit			
Xd	305	317	
X'd	14.6	15.3	
X''d	17.4	9.1	

*Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0 power factor. Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.0 power factor and SHUNT excitation. **With optional permanent magnet generator or AREP excitation

Emissions

Certified against the requirements of EU 2007 (EU 97/68/EC Stage II) legislation for non-road mobile machinery, powered by constant speed engines.

Generator Set Standards The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22. RMC is a fully accredited ISO 9001 company.

Warranty

All prime equipment, limited to 2,000 running hours per year, has a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact Rich Motor, or visit our website: www.richmotor.com

Fuel consumption	1500rpm	1800rpm
Standby power	36.1L/H	41.7 L/H
Prime power	33.4L/H	38.2L/H
75%	24.7L/H	29.1L/H
50%	16.4L/H	19.1L/H

Fuel Tank Capacity FOR OPEN TYPE 120L

Recommended fuel Type and oil Type

Fuel specification: BS 2869:

Part 2 1998 Class A2 or DIN EN 590. Lubricating oil: 15W40 to API CG4.

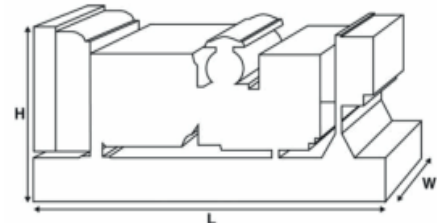
Controller Technical specs

Make And Model **Deep Sea PLC 6020 MK2**
AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

Key

Feature:

- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Generator overload protection (kW) and protection
- Breaker control via fascia buttons
- Fuel and start outputs,
- 4 configurable DC outputs
- 4 configurable analogue/digital input
- 6 configurable digital inputs
- Support for 0-10 V & 4-20 mA oil pressure sensors
- Configurable staged loading outputs
- Configurable event log (50)
- LCD and LED alarm indicatio
- Comprehensive warning, electrical trip or shutdown protection upon fault conditio
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time cloc
- Battery voltage monitoring
- 3 engine maintenance alarms
- CAN, MPU and alternator speed sensing in one variant



Dimensions And Weights

Length (L) in mm	Width (W) in mm	Height (H) in mm	Weight (Kg)
2500	770	1350	1350

RMC is the most trusted supplier of power and O&M services in UAE and The Middle East. We build, install, and service power solutions tailored to fit any need up to 2MW.





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Sound Proof P-150

Excellent Access for Maintenance

- * 4 Access Doors for better service space
- * 2 acces doors on the front and back
- * Lube Oil and Coolant drainage valve
- * external fuel filling Gauge with Level indicator

Transportability

- *Central Lifting points ontop of the roof
- *Two Forklift pocket at the bottom of the Base frame facilitating handling

Fuel Tank

- *BuiltIn fuel tank - Extendable*
- *External bulk tank connection provision via ball valve mounted on the side of the enclosure

Optional Equipment :

- Electronic fuel level sensor
- Fuel Leak detector
- Double skin tank
- Manual/Automatic fuel filling pump

* kindly refere to one of our sales team to know more about the extra options

Robust Corrosion Free Enclosure

- *Galvanised steel protected by powder coat paint
- *Black finish stainless steel locks and hinges
- * Zinc plated / stainless steel fasteners

Security and Safety

- *Control panel viewing via large viewing window in lockable enclosure door
- * Emergency stop push button mounted on enclosure exterior & one on the control panel
- *Cooling fan and battery charging alternator fully guarded
- *Fuel fill and battery can only be reached via lockable access doors and gauges
- *Fully enclosed exhaust silencing system for operator safety

		50Hz						60Hz					
		15m		7m		1m		15m		7m		1m	
Generator Set Model		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
P-150	Prime	69.8	69.8	78.6	78.8	79.0	79.2	70.4	71.0	79.1	79.5	80.2	80.9
	Standby	69.8	69.8	78.6	78.8	79.0	79.2	70.4	71.0	79.1	79.5	80.2	80.9

Sound Pressure Levels (dBA) Super Silent Enclosure

		50Hz						60Hz					
		15m		7m		1m		15m		7m		1m	
Generator Set Model		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
P-150	Prime	66.2	66.5	75.9	75.2	77.2	77.6	67.3	67.4	76.2	76.6	77.2	77.3
	Standby	66.2	66.5	75.9	75.2	77.2	77.6	67.3	67.4	76.2	76.6	77.2	77.3

Dimensions and Weights

Genset Model	L in mm	W in mm	H in mm	Weight in Kg	Fuel
Normal	3180	1100	1635	1700	174L
Super Silent	3550	1200	1900	1900	207L

Images are the property of Rich Motor company FZE

The mentioned data in this sheet are subject to change without prior notice , Due to continuous research and development.



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