



RICH MOTOR COMPANY

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



P 135 - 150

Data Sheet

Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50HZ	135KVA/108KWe	150.0KVA/120.0KWe	
220/127, 60 HZ	152KVA/122KWe	169.0kVA/135.0KWe	

Ratings and Performance Data			
Engine Make & Model:	Perkins 1106A-70TG1		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA 44.3L10	TAL044H	LINZ PRO 22ME/4

Control Panel	DSE6020MK2		
Base Frame	Heavy duty fabricated steel		
Circuit breaker type	3Pole MCCB LS-ABB-Schneider 200A		
Frequency	50 OR 60 Hz		
Engine Speed	1500 OR 1800rpm		
Fuel Tank Capacity	150L		
Exhaust System	50hz	60hz	

Maximum Allowable Back Pressure:			
kPa	20.75 kPa	22.65kPa	

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

Exhaust Gas temperature °C	Prime	Standby
	576	576

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 in3
Aspiration	TURBOCHARGED	
Cycle	4 stroke	
Combustion system	Indirect injection	
Compression ratio	18.2:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	18.0 litres	4.7 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	LSA44.3M8	TAL044H	LINZ PRO 22ME/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)	9864	9864	9864
Alternator	50Hz		60 HZ
Performance Data			
Data Item	400V	480V	220/127V
Motor Starting Capability KVA	277	257	*
Short Circuit Capacity %	*	*	*
Reactances: Per Unit			
Xd	323	337	
X'd	15.3	15.9	
X''d	18.3	19.1	

*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.

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	33.8L/H	-
Prime power	30.28L/H	-
75%	22.7L/H	-
50%	9L/H	-

Fuel Tank Capacity for Open Type 150L

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.

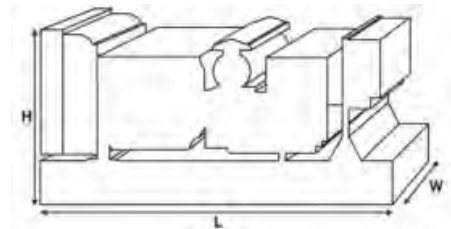
Controller Technical specs

Make And Model **Deep Sea PLC 6020 MK2**

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

Key

- 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)
- Generator/load current monitoring 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) 2500 Width (W) 770 Height (H) in 1350 Weight (Kg)

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-135

Our compact design of the P-135 Kva Normal and Super enclosures ensure optimum performance in the harshest environments. Designed and Fabricated using the latest technology and high-tech equipments, RMC Enclosures are built to Last. Doors & access panels can be Opened 180 degrees to allow easy maintenancance and service access. Extremely durable and robust, the enclosures are designed to resist corrosion and handling damage with the ability to withstand rough handling common on many construction sites. through the years RMC Specialist and Engineers have researched and developed the performance , looks and practicality of the enclosure. All our enclosure are weather Proof , corrosion resistant using only galvanized steel sheet, sound absorbant material with rockwhool insulation covered with a layer of perforated galvanized steel sheet and a residential exhaust muffler . It offers durability and high sound suppression.

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

Generator Set Model		50Hz						60Hz					
		15m		7m		1m		15m		7m		1m	
		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-135	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

Generator Set Model		50Hz						60Hz					
		15m		7m		1m		15m		7m		1m	
		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-135	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

Generator Set Model	L	W	H	Weight	Tank
	in mm	in mm	in mm	in Kg	
Normal	3180	1100	1635	1600	174L
	3550	1200	1900	1800	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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