



RICH MOTOR COMPANY

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



P 350 - 400

Data Sheet

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50HZ	350KVA/280KWe	400KVA/320KWe
220/127, 60 HZ *	400KVA/320KWe	438KVA/350KWe

*Not Applicable for TAL

Ratings and Performance Data

Engine Make & Model:	Perkins 2206A-E13TAG2		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA46.3 L11	TAL046 H	LINZPRO28M F/4

Control Panel	DSE6020MK2		
Base Frame	Heavy duty fabricated steel		
Circuit breaker type	3Pole MCCB LS-ABB-Schneider 500A		
Frequency	50 OR 60		
Engine Speed	1500 OR 1800		
Fuel Tank Capacity for open type	350L		
Exhaust System	50hz	60hz	
Maximum Allowable Back Pressure:	kPa		
	10.0 kPa	-	
Exhaust Gas flow	m ³ /min		
	Prime	56.6	67.5
	Standby	64.8	74.5
Exhaust Gas temperature °C			
	Prime	573	618
	Standby	630	680

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	130 x 157 mm	5.1 x 6.1 in
Displacement	12.5 litres	763 in ³
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Indirect injection	
Compression ratio	16.3:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	40 litres	10.5 US gal
Cooling system	Water cooled	
Total coolant capacity	51.4 litres	13.6 US gal
Power Factor	0.8	

Technical information

Air inlet

Mounted air filter and turbocharger

Fuel system

HEUI fuel system with full authority electronic control
Electronic governing to ISO 8528-5 with stand-alone isochronous and load-sharing capabilities

Fuel filter, fuel transfer pump, fuel priming pump

Spin on primary, secondary and water filter separator

Lubrication system

Wet full aluminium sump with filler and dipstick

Full-flow spin-on filters /Oil pump, gear driven

Cooling system

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

Mounted radiator, piping and guards

Electrical equipment

24 volt starter motor and 24 volt 70 amp alternator with DC output

Oil pressure and coolant temperature switches

12 volt shut-off solenoid energised to run

Electronic Control Module (ECM) mounted on engine with wiring looms and sensors

Flywheel and housing

1500/1800 rev/min

High inertia flywheel to SAE J620 size 14

Aluminium SAE 1 flywheel housing

Mountings

Front and rear engine mounting brackets

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Alternator Physical Data

The LSA 47.2 alternator conforms to the main international standards and regulations:
- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA / UL 1446 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 47.2 is designed, manufactured and marketed in an ISO 9001 and ISO 14001 environment.

Manufactured By Leroy Somer EU/ linz EU	LSA ¹	TAL ²	LINZ ³
Model	LSA46.3 L11	TAL046 H	LINZPRO28M F/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	R150	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:	< 2.5%	< 2.5%	< 4%
Radio Interference:	R 791 interference suppression conforming to standard EN 61000-6-3, EN 61000-6-2, EN 55011 group 1 class B standard for EU		
Radiant Heat: kW (Btu/min)	21906	21906	21906

Alternator	50Hz		60 HZ
	Performance Data		
Data Item	400V	480V	220/127V
Motor Starting Capability* KVA	791	856	*
Short Circuit Capacity** %	*	*	*
Reactances: Per Unit			
Xd	355	353	
X'd	13.2	13.1	
X''d	10.5	10.5	

*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

Fuel consumption	1500rpm	1800rpm
Standby power	77.8L/H	88.1L/H
Prime power	68.6L/H	80.4L/H
75%	52.6L/H	61.4L/H
50%	37.1L/H	44.5L/H
Fuel Tank Capacity for open type	350L	

Recommended fuel Type and oil Type

Fuel specification: Recommended fuel to conform to BS 2869 1998 CLASS A2 or BSEN590.

. Lubricating oil: 15W40 to API CG4.

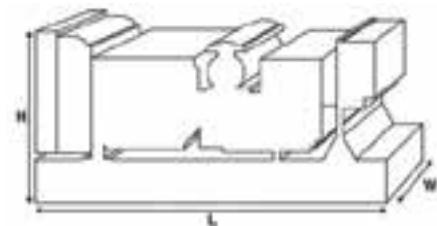
Controller Technical specs

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) in mm 3400	Width (W) in mm 1120	Height (H) in mm 2030	Weight (Kg) 3200
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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-350

Our compact design of the P-350 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 maintenance 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 rockwool 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-350	Prime	71.8	71.9	79.6	79.8	80.0	80.2	72.4	72.6	79.1	79.5	80.2	80.9
	Standby	71.8	71.9	79.6	79.8	80.0	80.2	72.4	72.6	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-350	Prime	69.2	69.5	73.9	74.2	77.2	77.6	69.5	69.8	74.2	74.6	77.2	77.8
	Standby	69.2	69.5	73.9	74.2	77.2	77.6	69.5	69.8	74.2	74.6	77.2	77.8

Dimensions and Weights

Genset Model	L in mm	W in mm	H in mm	Weight in Kg	Fuel
Normal	4300	1700	2300	4200	660L
Super Silent	4800	1700	2450	4700	660L



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**Contact
Us**

Rich Motor Company FZE
Hamriya Free Zone Sharjah Phase 2
P.O. Box 49353
Tel: +971-6-5269111
Fax: +971-6-5265431

E-Mail:-
Sales@richmotor.com
rncghaddar@gmail.com

richmotor.com