RICH MOTOR COMPANY
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RMC Sells, Builds, & Operates Power Generators in Emmerging markets

P 275 - 300 Data Sheet

Output Ratings		
Voltage, Frequency	Prime	Standby
400V, 50HZ	275KVA/2220KWe	300KVA/240KWe
220/127, 60 HZ	313KVA/250KWe	344KVA/275KWe

Ratings and Performance Data			
Engine Make & Model:	Perkins 1506A-E88TAG4		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA46.3 M7	TAL046E	LINZ PRO28M E/4

Control Panel	DSE6020MK2
Base Frame	Heavy duty fabricated steel
Circuit breaker type	3Pole MCCB LS-ABB-Schneider 400A
Frequency	50 OR 60
Engine Speed	1500 OR 1800
Fuel Tank Capacity FOR OPEN TYPE	200L

Exhaust Sytstem		50hz	60hz
Maximum Allowable Back Pressure: kPa		10.0 kPa	-
Exhaust Gas flow m^3/min			
	Prime	37.5	45.3
	Standby	40.4	48.9
Exhaust Gas temperature °C			
	Prime	537	477
	Standby	558	496

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	112 x 149 mm | 4.5 x 5.8 in
Displacement	8.8 litres | 537 in3
Aspiration	TURBOCHARGED AFTERCOOLED
Cycle	4 stroke
Combustion system	Indirect injection
Compression ratio	16.1:1
Rotation	Anti-clockwise, viewed on flywheel
Total lubricating capacity	41 litres | 9.01 US gal
Cooling system	Water cooled
Total coolant capacity	29.6 litres | 7.81 US gal
Power Factor	0.8

Technical informaion

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
24V starter motor and 24V, 45 amp alternator with DC output
Oil pressure and coolant temperature switches
12 volt shut-off solenoid energised to run
l Electronic Control Module (ECM) mounted on engine with wiring looms and sensors

Flywheel and housing
1500/1800 rev/min
High inertia flywheel to SAE 1 J620 Size 355.6 mm (14 in)
Aluminium SAE 1 flywheel housing

Mountings
Front and rear engine mounting brackets

Perkins® LEROY SOMER® LINZ ELECTRIC The Electric Generation

Alternator Physical Data

Specially adapted to applications

The LSA 46.3 alternator is designed to be suitable for typical generator applications, such as: backup marine applications, rental,

telecommunications, etc.

Compliant with international standards

The LSA 46.3 alternator conforms to the main international standards and regulations:

- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14, UL 1446 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 46 3 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 M7	TAL046E	LINZ PRO28M E/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:	< 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)	19113	19113	19113

Alternator Performance Data	50Hz			60 HZ
Data Item	400V	480V		220/127V
Motor Starting Capability* KVA	586	623		*
Short Circuit Capacity %	*	*	*	*
Reactances: Per Unit				
Xd	316	329		
X'd	12.4	12.9		
X''d	9.9	10.3		

*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.

Fuel consumption	1500rpm	1800rpm
Standby power	66L/H	75L/H
Prime power	60L/H	68L/H
75%	46L/H	51L/H
50%	32L/H	36L/H
Fuel Tank Capacity FOR OPEN TYPE	200L	

Recommedned 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.

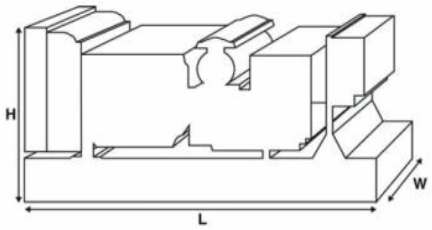
Controller Technical specs

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	Width (W) in mm	Height (H) in mm	Weight (Kg)
2850	990	1750	2100

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

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.

BAS CERTIFICATION BAS ISO 9001 REGISTERED

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Sound Proof P-275

Our compact design of the P-275 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 degress to allow easy maintenanace 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. throught the years RMC Specialist and Engineers have researched and developped the performace , looks and pratcticality 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 galavanized 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

Robust Corrosion Free Enclosure

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

Transportability

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

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

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

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-275	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-275	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	3650	1400	1975	3500	380L
Super Silent	4150	1600	2050	3800	550L

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