



RICH MOTOR COMPANY

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



P 800 - 880

Data Sheet

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50HZ	800KVA/640KWe	900KVA/720KWe
220/127, 60 HZ *	844KVA/750KWe	938KVA/750KWe

*Not Applicable for TAL

Ratings and Performance Data

Engine Make & Model:	Perkins 4006-23TAG3A		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA 49.1 M75	TAL049 C	-

Control Panel DSE 7320MKII

Base Frame Heavy duty fabricated steel

Circuit breaker type 3Pole MCCB LS-ABB-Schneider 1200A

Frequency 50 OR 60

Engine Speed 1500 OR 1800

Fuel Tank Capacity for open type 800L

Exhaust System

Maximum Allowable Back Pressure:

kPa	50hz	60hz
	3.0 kPa	-

Exhaust Gas flow m³/min

Prime	193	209
Standby	193	209

Exhaust Gas temperature °C

Prime	500	500
Standby	500	500

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 and DIN 6271

Specification

Number of cylinders	6 vertical in-line	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	22.921 litres	1397 in3
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	direct injection	
Compression ratio	16:01	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	113.4 litres	29.5 US gal
Cooling system	Water cooled	
Total coolant capacity	105 litres	27.7 US gal
Power Factor	0.8	

Technical information

Air inlet

Mounted air filter and turbocharger

Fuel system

1 Direct fuel injection system, fuel lift pump

1 Fuel cooler

Governing Heinzmann digital governor – governing to ISO 8528-5 Class G2

Lubrication system

Wet sump with filler and dipstick

Lubrication oil filters / Oil cooler with separate filter header

Cooling system

Twin thermostats, water pump

System designed for ambients up to 35°C or 50°C

Radiator supplied loose incorporating air-to-air charge cooler

Electrical equipment

1 24 volt starter motor, 24 volt 70 amp battery charging alternator with integral voltage regulator and activating switch

1 High coolant temperature switch

1 Low oil pressure switch

Flywheel and housing

1500/1800 rev/min

1 High inertia flywheel to SAE J620 size 18

Aluminium SAE 0 flywheel housing

Mountings

Front and rear engine mounting brackets

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Alternator Physical Data

The LSA 49.1 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA 49.1 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 49.1 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001

Manufactured By	Leroy Somer EU/ linz EU	LSA ¹	TAL ²	
Model		LSA 49.1 M75	TAL049 C	-
No. of Bearings:		1	1	-
Insulation Class		H	H	-
Winding Pitch Code:		2/3 (wdg 6)	2/3 (wdg 6S)	-
Wires:		6	6	-
Ingress Protection Rating:		IP23	IP23	-
Excitation System:		AREP OR PMG	SHUNT	-
AVR Model:		R450	R150	-

Overspeed: rpm	2250 min-1	2250 min-1	-
Voltage Regulation: (Steady state)	± 0.5%	± 1%	-
Wave Form NEMA = TIF:	< 50	< 50	-
Wave Form IEC = THF:	< 2%	< 2%	-
Total Harmonic content LL/LN:	< 2.5%	< 2.5%	-
Radio Interference:	R 791 Interference suppression conforming to standard EN 55011 group 1 class B standard for European zone (CE marking).		
Radiant Heat: kW (Btu/min)	37700	37700	-

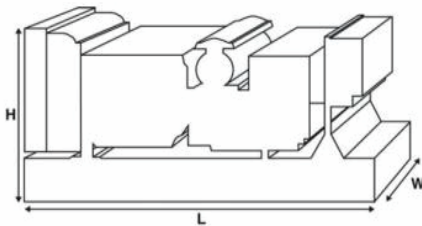
Alternator Performance Data	50Hz		60 HZ
	400V	480V	220/127V
Data Item			
Motor Starting Capability* KVA	1962	2096	*
Short Circuit Capacity** %	*	*	*
Reactances: Per Unit			
Xd	332	332	
X'd	16.2	16.2	
X''d	12.9	12.9	

*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

for non-road mobile machinery, powered by constant speed engines.

Generator Set Standards The equipment meets the following standards: B55000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22. RMC is a fully accredited ISO 9001 company.



Dimensions And Weights

Length (L) in	Width (W) in	Height (H) in	Weight (Kg)
mm	mm	mm	5500
4250	1700	2170	

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	194/H	224L/H
Prime power	172L/H	200L/H
75%	130L/H	144L/H
50%	90L/H	96L/H
Fuel Tank Capacity for open type	800L	

Recommended fuel Type and oil Type

Fuel specification: BS 2869:

Part 2 1998 Class A2 or ASTM D975 D2. Lubricating oil: 15W40 to API CI4.

Controller Technical specs

Make And Model Deep Sea PLC 7320 MK2

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

Key Feature:

- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- 3 phase mains (utility) sensing and protection (DSE7320 MKII only)
- Automatic load transfer control (DSE7320 MKII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)
- kW and kvar overload and reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified
- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 2 configurable volt-free relay outputs
- 6 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of RS232 and RS485 communication ports
- True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.
- MODBUS RTU support with configurable MODBUS pages.
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Modules can be integrated into building management systems (BMS) using MODBUS RTU

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-800

Our compact design of the P-800 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. throught the years RMC Specialist and Engineers have researched and developed the performace , looks and prcticality 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 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

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 referre 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 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-800	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

		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-800	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	W	H	Weight	Fuel
	in mm	in mm	in mm	in Kg	
Normal	6000	2200	2840	9350	1250L
Super Silent	6060	2440	2590	10200	1250L

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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