



**RICH MOTOR COMPANY**

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



## P 1350-1500 Data Sheet

### Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50HZ	1364KVA/1092KWe	1500KVA/1200KWe
220/127, 60 HZ *	1364KVA/1092KWe	1500KVA/1200KWe

\*Not Applicable for TAL

### Ratings and Performance Data

Engine Make & Model:	Perkins 4012-46TWG3A		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA 50.2 L7	-	-

### Control Panel

DSE 7320MKII

### Base Frame

Heavy duty fabricated steel

### Circuit breaker type

3Pole ACB LS-ABB-Schneider 2000A

### Frequency

50 OR 60

### Engine Speed

1500 OR 1800

### Fuel Tank Capacity for open Type

1000L

### Exhaust System

50hz 60hz

### Maximum Allowable Back Pressure:

kPa 5.0 kPa -

### Exhaust Gas flow m<sup>3</sup>/min

Prime 230 235

Standby 230 235

### Exhaust Gas temperature °C

Prime 422 430

Standby 422 430

### 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

Standby

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	12 60° Vee form	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	45.842 litres	2797 in3
Aspiration	Turbocharged and air to water charge cooled	
Cycle	4 stroke	
Combustion system	direct injection	
Compression ratio	13.6:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	177 litres	46.7 US gal
Cooling system	Water cooled	
Total coolant capacity	201 litres	53 US gal
Power Factor	0.8	

### Technical information

#### Air inlet

Mounted air filter and turbochargers

#### Fuel system

Direct fuel injection system with fuel lift pump

Governing to ISO 8528-5 class G3 with isochronous capability

Full-flow spin-on fuel oil filter

#### Lubrication system

Wet sump with filler and dipstick

Full-flow spin-on oil filters

Engine jacket water/lub oil temperature stabiliser

Two twin thermostats / System designed for ambients up to 50°C

Powder coated radiator comprising: water radiator; fuel oil cooling (optional); all pipes, hoses and clips; fan; pulleys;

fan belts and safety guards

#### Electrical equipment

24 volt starter motor and 24 volt alternator with integral regulator and DC output

Overspeed switch and magnetic pickup

Turbine inlet temperature shutdown switch

Twin high coolant temperature shutdown switches

Twin low oil pressure shutdown switches

#### Flywheel and housing

Flywheel to SAE J620 size 18

SAE 00 flywheel housing

#### Mountings

Front and rear engine mounting brackets

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### Alternator Physical Data

Specially adapted to applications  
The LSA 50.2 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

#### Compliant with international standards

The LSA 50.2 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 50.2 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

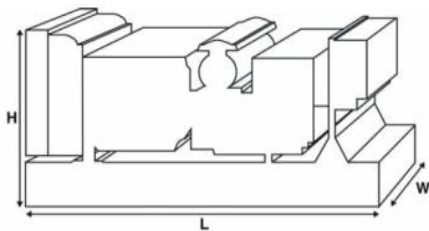
Manufactured By Leroy Somer EU/ linz EU	LSA <sup>1</sup>
Model	LSA 50.2 L7
No. of Bearings:	1
Insulation Class	H
Winding Pitch Code:	2/3 (wdg 6)
Wires:	6 (Option 12)
Ingress Protection Rating:	IP23
Excitation System:	AREP OR PMG
AVR Model:	R450
Overspeed: rpm	2250 min-1
Voltage Regulation: (Steady state)	± 0.5%
Wave Form NEMA = TIF:	< 50
Wave Form IEC = THF:	< 2%
Total Harmonic content LL/LN:	< 3.5%
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)	53260

Alternator	50Hz	60 Hz
<b>Performance Data</b>		
Data Item	400V	480V
Motor Starting Capability* KVA	3087	3312
Short Circuit Capacity** %	300	300
Reactances: Per Unit		
Xd	364	377
X'd	17.4	18.1
X''d	14.8	15.4

\*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: BS5000, 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	7570
4950	2180	2530	

#### 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](http://www.richmotor.com)

Fuel consumption	1500rpm	1800rpm
Standby power	318L/H	298L/H
Prime power	283L/H	266L/H
75%	213L/H	209L/H
50%	151L/H	175L/H

Fuel Tank Capacity for open Type 1000L

### Recommended fuel Type and oil Type

Fuel specification: BS2869: Class A2. Recommended  
lubricating oil to conform with the specification of API CH4 15W-40 or MIL - L - 2104C

### 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 configuration
- 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-1350

Our compact design of the P-1350 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 maintenace 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 pratcticality 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
- \* Buil In Ladder

### Transportability

- \* 4 corner 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

- \*40 Feet ISO Container
- \* 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

Generator Set Model 40' Container	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-1350 Prime Standby	74.8	75.9	79.6	79.8	82.0	83.2	74.8	75.9	79.6	79.8	82.0	83.2
	74.8	75.9	79.6	79.8	82.0	83.2	74.8	75.9	79.6	79.8	82.0	83.2

### Dimensions and Weights

Genset Model	L	W	H	Weight	Fuel
P-1350 40" Container	in mm	in mm	in mm	in Kg	
	12190	2440	2890	16000	2000L

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



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