

Voltage, Frequency Prime Standby 400V, 50HZ 1250KVA/1385KWe 1250KVA/1000KWe

Engine Make & Model: Perkins4016-61TRG3 Alternator Make and Model OPTION C OPTION A OPTION B ISA 50.219

DSE 7320MKII **Control Panel** Heavy duty fabricated steel Base Frame Circuit breaker type ole ACB LS-ABB-Schneider 3500A Frequency Engine Spee

Fuel Tank Capacity for open typ	e 2500L			
Exhaust Sytstem		50hz	60hz	
Maximum Allowable Bacl	k Pressure:			
kPa		3.0 kPa	-	
Exhaust Gas flow m³/min				
	Prime	230	235	
	Standby	230	235	
Exhaust Gas temperature °C			-	
	Prime	422	430	
	Standby	422	430	

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** 

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:

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

the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514 and DIN 6271

12 60° Vee form Number of cylinders 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 Cvcle 4 stroke direct injection Combustion system Compression ratio 13.6:1 Anti-clockwise, viewed on flywheel Rotation Total lubricating capacity 177 litres 46.7 US gal Cooling system Water cooled Total coolant capacity 201 litres 53 US gal

0.8

Mounted air filter and turbochargers

Power Factor

Technical info

Direct fuel injection system with fuel lift pump

Governing to ISO 8528-5 class G2 with isochronous capability

Full-flow spin-on fuel oil filte

Lubrication system

l Wet sump with filler and dipstick

I Full-flow spin-on oil filters

I Engine jacket water/lub oil temperature stabiliser l Two twin thermostats / I System designed for ambients up to 50℃

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

Prime

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 temperate shutdown switches

Twin low oil pressure shutdown switches

### Flywheel and housin

I Flywheel to SAE J620 size 18 I SAE 00 flywheel housing

Mountings

Front and rear engine mounting brackets

**Data Sheet** P 2250-2500







### 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 LSA¹	
Model	LSA 50.2 L9 -	•
No. of Bearings:	1	-
Insulation Class	Н	-
Winding Pitch Code:	2/3 (N° 6S)	-
Wires:	6	-
Ingress Protection Rating:	IP23	•
Excitation System:	AREP OR PMI	-
AVR Model:	D510C	-
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 stand EN 55011 group 1 class B standard for European zoo	
Radiant Heat: kW (Btu/min)	41710 41710	=
Alternator	50Hz	60 HZ

Radiant Heat: KW (Btu	/min)	41/	10	41/10 -	
Alternator		50Hz		60 HZ	
Performance Data					
Data Item	400V	480V		220/127V	
Motor Starting	8266	8870		*	
Capability* KVA					
Short Circuit	*	*	*	*	
Capacity** %	300	300			
Reactances: Per Unit					
Xd	344	344			
X'd	26.1	26.1			
X''d	13.2	13.2			

<sup>\*</sup>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.

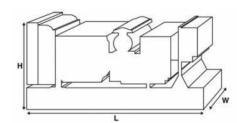
\*\*With optional permanent magnet

generator or AREP excitation

### **Emissions**

All 4016-61TRG ratings are optimised to "Best Fuel Consumption" and do not comply to harmonised International regulation emission limit.

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	11000			
6000	2185	3895	11000			

Fuel consumption	1500rpm	1800rpm
Standby power	528/H	
Prime power	473L/H	
75%	346L/H	
50%	235L/H	
Fuel Tank Capacity for open type	2500L	

# Recommedned fuel Type and oil Type

Fuel specification: BS2869: Class A1.

Recommended lubricating oil to conform with the specification

of API CH4 15W-40 or MIL - L - 2104C

# Controller Technical specs

Make And Deep Sea PLC 7320 MK2

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

#### Koy Foature

- 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

larms

- 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

### 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







Our compact design of the P-2250 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 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 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

Genera	ator Set	15	5m	<b>7</b> r	m	1n	n	15:	m	<b>7</b> r	m	1m	1
Model	40' Containaer	<b>75% Load</b>	100% Load	<b>75% Load</b>	100% Load	<b>75% Load</b>	100% Load	75% Load	100% Load	<b>75% Load</b>	100% Load	<b>75% Load</b>	100% Load
P-2250	Prime	74.8	75.9	79.6	79.8	82.0	83.2			N/	Δ		
	Standhy	74 S	75.9	79.6	79 S	82 N	83.2			- I <b>V</b> /	$\boldsymbol{\wedge}$		

# **Dimensions and Weights**

<b>Genset Model</b>	L	W	Н	Weight	Fuel
P-2250 40' Container	in mm	in mm	in mm	in Kg	
	12190	2440	4150	19000	2500L

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



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

