

	w .		
Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50HZ	1850KVA/1840We	2000KVA/1600KWe	

Ratings and Performance Data							
Engine Make & Model:	Perkins 4016-61TRG1						
Alternator Make and Model	OPTION A	OPTION B	OPTION C				
	LSA 52.3S5	-	_				

Control Panel DSE 7320MKII Base Frame Heavy duty fabricated steel Circuit breaker type BPole ACB LS-ABB-Schneider 3000A Frequency 1500 **Engine Speed**

Fuel Tank Capacity for Open type 25001 **Exhaust Sytstem** Maximum Allowable Back Pressure: 3.0 kPa kPa 400 Standby 420 Exhaust Gas temperature °C Prime 422 422

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

Specification

Number of cylinders 16 60° Vee form 160 x 190 mm 6.3 x 7.5 in Bore and stroke Displacement 61.123 litres 3730 in3 Aspiration Quad turbocharged. 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 237.2 litres 62.7 US gal Cooling system Water cooled Total coolant capacity 252 litres | 66.6 US gal Power Factor 0.8

Technical informaior

Mounted air filter and turbochargers

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

I Two triple thermostats

I System designed for ambients up to 50°C

I Powder coated radiator comprising: water radiator, air charge-cooled radiator, fuel oil Two twin thermostats / Tsystem designed for ambients up to 509

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

fan; pulleys; fan belts and safety guards

Electrical equipment

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

I Turbine inlet temperature shutdown switch

I Twin high coolant temperate shutdown switches

I Twin low oil pressure shutdown switches

I Air shut off valve wiring harness - fully wired

Flywheel and housing

I Flywheel to SAE J620 size 18, 533.4 mm (21 in)

I SAE 00 flywheel housing

Mountings

Front and rear engine mounting brackets

Data Sheet P 1850-2000







Alternator Physical Data

Specially adapted to applications

The LSA 52.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental,

telecommunications, etc.

Compliant with international standards

The LSA 52.3 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 52.3 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Manufactured By Leroy Somer EU,	/ linz EU LSA	
Model	LSA 52.3S5 -	•
No. of Bearings:	1	-
Insulation Class	Н	-
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 standard for European zone (CE marking).	I 55011 group 1 class B
Radiant Heat: kW (Btu/min)	80	-

Hadiane Heat. Ker (Bta	, ,			
Alternator		50Hz		60 HZ
Performance	Data			
Data Item	400V	480V		220/127V
Motor Starting Capability* KVA	5086	4740		*
Short Circuit	*	*	*	*
Capacity** %	300	300		
Reactances: Per Unit				
Xd X'd X''d	367 28.7 15	367 28.7 15		

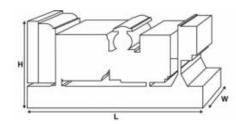
^{*}Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0 power factor.Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.0 power factor and SHUNT excitation.

**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			
5700	2780	3895				

Fuel consumption	1500rpn	n	1800rpm
Standby power	401L/H		
Prime power	371L/H		
75%	275L/H		
50%	136L/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

- 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

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-1850 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 Model	ator Set 40'Containaer		5m 100% Load	7r 75% Load	•	1n 75% Load		15m 75% Load 100% Lo	7m pad 75% Load 100% Load	1m
P-1850	Prime Standby	74.8 74.8	75.9 75.9	79.6 79.6	79.8 79.8	82.0 82.0	83.2 83.2	7070 2000 20070 20	N/A	- 7070 2000 20070 2000

Dimensions and Weights

Genset Model	L	W	Н	Weight	Fuel
P-1850 40' Container	in mm	in mm	in mm	in Kg	
	12190	2440	4150	19000	2500L

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.



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

