

P 13 - 14.3 **Data Sheet**

Output Ratings		
Voltage, Frequency	Prime	Standby
400V, 50HZ	13KVA/10.4KWe	15.0KVA/11.4KWe
220/127, 60 HZ* 403D-15G	15.8KVA/12.6KWe	17.5KVA/13.9KWe

Ratings and Performance Data

Engine Make & Model: Perkins 403A-15G or 403D-15G (60hz)

OPTION C Alternator Make and Model OPTION A OPTION B LSA 40VS2 TAL040C LINZE1X13ME/4

Control Panel	D:	DSE6020MK2				
Base Frame	Heavy	duty fabricate	ed steel			
Circuit breaker type	3Pole N	ACB LS-ABB-S	chneider 20A			
Frequency		50-60 Hz				
Engine Speed		1500-1800rpi	n			
Fuel Tank Capacity for OpenTyp	e	60L				
Exhaust Sytstem		50hz	60hz			
Maximum Allowable Back F	ressure:					
kPa (in Hg)		10.2 (2.98)	10.2 (2.98)			
Exhaust Gas flow m³/min						
	Prime	2.7	2.9			
	Standby	2.7	2.9			
Exhaust Gas temperature °C						
	Prime	445	490			
	Standby	445	490			

Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

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

Specification

3 vertical in-line Number of cylinders Bore and stroke 84 x 90 mm 3.3 x 3.5 in Displacement . 1 496 litres .91 3 in³ Aspiration Naturally aspirated Cycle 4 stroke Combustion system Indirect injection Compression ratio 22.5:1 Anti clockwise, viewed on flywheel Rotation Total lubricating capacity 6.0 litres 1.58 US gal Cooling system Water cooled 6 0 litres Total coolant capacity 1 58US gal Power Factor 8.0 Mechancical Governor

Technical informaion

Air inlet

-Mounted air filter

Fuel system

-Mechanically governed cassette type fuel injection pump

-Split element fuel filter Lubrication system

Wet steel sump with filler and dipstic

Spin-on full-flow lub oil filter

Thermostatically-controlled system with belt driven coolant pump and pusher fan, Mounted radiator, piping and guards

12 volt starter motor and 12 volt 15 amp alternator with DC output

Oil pressure and coolant temperature switches

12 volt shut-off solenoid energised to run

Glow plug cold start aid and heater/starter switch

Flywheel and housing

1500/1800 rev/min

High inertia flywheel to SAE J620 Size 165.1 mm (6½ in) Heavy

Flywheel housing SAE 5 Long

Front and rear engine mounting brackets

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Alternator Physical Data

Specially adapted to applications

The LSA 40 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental,

telecommunications, etc.

Compliant with international standards

The LSA 40 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 .lt can be integrated into a CE marked generator.

The LSA 40 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Manufactured By Lerc	v Somer /	linz	LSA ¹	TAL ²	LINZ³	
Model	by Joiner /	LSA40VS2	TAL040C	E1X13ME/4		
No. of Bearings:			1	1	1	
Insulation Class			Н	Н	Н	
Winding Pitch Code:				1.43		
Wires:			2/3 (wdg 6) 12	2/3 (wdg 6S) 6	1.45	
wires.		12	Ü	12		
Ingress Protection Rat	ing:	IP23	IP23	IP23		
Excitation System:			SHUNT	SHUNT	SHUNT	
AVR Model:			R220	R 120	HVR11	
Alternator Operating	Data					
Overspeed: rpm			2250 min-1	2250 min-1	2250 min-1	
Voltage Regulation: (S	teady state)	± 1%	± 1% ± 1%		
Wave Form NEMA = T	IF:		< 50	< 50	< 50	
Wave Form IEC = THF:			< 3%	< 3% < 3%		
Total Harmonic conter	nt LL/LN:		< 5%	< 5%	< 5%	
Radio Interference:			*	*	*	
Radiant Heat: kW (Btu	/min)		2080	2080	2080	
Alternator			50Hz	60	ΗZ	
Performance	Data					
Data Item	415/240V	400/230V	380/220V	220	/127V	
Motor Starting	15	14	13		14	
Capbility KVA						
Short Circuit	*	*	*		*	
Capacity %						
Reactances: Per Unit						
Xd	188	174				
X'd	16.8	16.3				
X''d	16.4	15.9				

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.

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	7.5L/H	7.5L/H
Prime power	6.8L/H	6.8L/H
75%	5.5L/H	5.5L/H
50%	4.4L/H	4.4L/H
Built-In Fuel Tank Capacity:	60L	

Recommed	dned fue	Type and	l oil Type

Diesel fuel is according to BS2869 Cclass A2 or equivalent is according to API CH4 (15W/40)

Lubricating Oil

Controller Technical specs

Make And Deep Sea PLC 6020 MK2

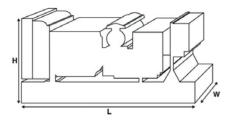
Model AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

Key

Feature:

- 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 Battery voltage monitoring
- •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
- 3 engine maintenance alarms



Dimensions And Weights fo Open Type							
Length (L)	Width (W)	Height (H) in	Weight (Kg)				
in mm 1500	in mm 610	mm 990	460				

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.





Our compact design of the P9-P13-P15 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

- * 2 Large Side 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
- * Towing provision on 4 sides of the skid

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

- *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
- *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

Sound Pressure Levels (dBA) Normal Enclosure

		_		50HZ						60HZ			
Gene Mode	erator Set el	15ı 75% Load		7m 75% Load		1m 75% Load		15m 75% Load		7m oad 75% Load	-	1m ad <i>7</i> 5% Loa	d 100% Load
P9	Prime	57.2	58.6	63.2	64.6	75.4	76.3	59.3	60.1	65.3	66.1	78.1	78.6
	Standby	57.7	59.3	63.7	65.3	75.7	76.7	59.5	60.4	65.5	66.4	78.2	78.8
P13	Prime	57.2	58.6	63.2	64.6	75.4	76.3	59.3	60.1	65.3	66.1	78.1	78.6
	StandBy	57.7	59.3	63.7	65.3	75.7	76.7	59.5	60.4	65.5	66.4	78.2	78.8
P15	Prime	59.8	60.5	65.8	66.5	77.0	77.7	61.9	63.1	67.9	69.1	78.9	79.9
	Standby	60.0	60.8	66.0	66.8	77.2	78.0	62.3	63.6	68.3	69.6	79.2	80.4

Sound Pressure Levels (dBA) Super Silent Enclosure

			<u>50Hz</u>					<u>60Hz</u>					
	Generator Set Model		15m 75% Load 100% Load		7m 75% Load 100% Load		1m 75% Load 100% Load		15m 75% Load 100% Load		7m 75% Load 100% Load		100% Load
P9	Prime	54.1	55.3	56.2	57.0	59.3	60.2	54.1	55.3	56.2	57.0	59.3	60.2
	Standby	54.7	55.9	57.2	57.8	60.1	6.8	54.7	55.9	57.2	57.8	60.1	60.8
P13	Prime	54.1	55.3	56.2	57.0	59.3	6.2	54.1	55.3	56.2	57.0	59.3	60.2
	StandBy	54.7	55.9	57.2	57.8	60.1	6.8	54.7	55.9	57.2	57.8	60.1	60.8
P15	Prime	56.3	56.7	57.1	57.4	59.2	59.2	56.3	56.7	57.1	57.4	59.9	60.4
	Standby	56.3	56.7	57.1	57.4	59.2	59.2	56.3	56.7	57.1	57.4	59.9	60.4

Dimensions and Weights

Genset Model	L in mm	W in mm	H in mm	Weight in Kg	Fuel Tank Capacity in L
Normal	1850	750	1240	550	70L
Super Silent	2000	1000	1280	630	78L

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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

