

P 15 - 16.5 Data Sheet

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Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50HZ	15KVA/12KWe	17.0KVA/13.0KWe	
220/127 60 HZ 403D-15G	18 ΩΚVΔ/14 ΩΚWe	20 0KVA/16 0KWe	

Ratings and Performance D	ata						
Engine Make & Model:	Perkins 403A-2	15G2					
Alternator Make and Model	OPTION A	OPTION E	3 OP	TION C			
	LSA 40S4	TAL040D	LINZE1	X13M FS/4			
Control Panel	DS	E6020MK2					
Base Frame Heavy duty fabricated steel							
Circuit breaker type 3Pole MCB LS-ABB-Schneider 32A							
Frequency 50 or 60 Hz							
Engine Speed	1	.500 or 800rp	m				
Fuel Tank Capacity for Open	Туре	60L					
Exhaust Sytstem		50hz	60hz				
Maximum Allowable Ba	ick Pressure:						
kPa (in Hg)		10.2 (2.98) 10.2 (2.98)					
Exhaust Gas flow m ³ /r	min						
	Prime	2.2	2.2				

Prime Ratino

Exhaust Gas temperature °C

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

Standby

Prime

Standby

TBA

470

490

TBA

470

490

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

Number of cylinders 3 vertical in-line 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 22.5:1 Compression ratio Rotation Anti-clockwise, viewed on flywheel Total lubricating capacity 6.0 litres | 1.58 US gal Cooling system Water cooled Total coolant capacity 6.0 litres | 1.58US gal 8.0 **Power Factor** Governor Mechanical

Technical informaion

Air inle

-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

Cooling system

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

Electrical equipment

 $12\ \text{volt}$ starter motor and $12\ \text{volt}$ $15\ \text{amp}$ 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

Mountings

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 .It 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	y Somer /	linz	LSA ¹	TAL ²	LINZ³
Model				LSA40S4	TAL040D	E1X13M FS/4
No. of Bearings:				1	1	1
Insulation Class				Н	Н	Н
Winding Pitch Co	de:			2/3 (wdg 6)	2/3 (wdg 6S)	1.43
Wires:				12	6	12
Ingress Protection	n Rat	ing:		IP23	IP23	IP23
Excitation System	1:			SHUNT	SHUNT	SHUNT
AVR Model:				R220	R 120	HVR11
Alternator Opera	ting	Data				
Overspeed: rpm				2 2250 min-1	2250 min-1	2250 min-1
Voltage Regulation	n: (S	teady state)	± 1%	± 1%	± 1%
Wave Form NEM	A = T	F:		< 50	< 50	< 50
Wave Form IEC =	THF:			< 3%	< 3%	< 3%
Total Harmonic co	onter	nt LL/LN:		< 5%	< 5% < 5%	
Radio Interferenc				*	*	*
Radiant Heat: kW	/ (Btu	/min)		2670	2670	
Alternator Performano	ce Da	ta	Į.	50Hz		60 HZ
Data Item		415/240V	400/230V	380/220V		220/127V
Motor Starting Capbility KVA		16	15	14		15
Short Circuit Capacity %				*		*
Reactances: Per Unit						
	Xd	204	195			
	X'd	17.2	16.4			
	X''d	7	7			

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.

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:

Recommedned fuel Type and oil Type

Diesel fuel is according to BS2869 Cclass A2 or equivalen Lubricating Oil is according toAPI CH4 (15W/40)

Controller Technical specs

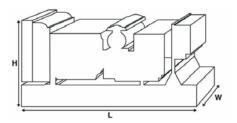
Make And Deep Sea PLC 6020 MK2

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
- CAN, MPU and alternator speed sensing in one variant



Dimensions And W	eights		
Length (L) in	Width (W)	Height (H) in	Weight (Kg)
mm	in mm	mm	
1500	610	990	460

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

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 pratcticality 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

		_		<u>50Hz</u>				<u>60Hz</u>					
Ger Mod	nerator Set del	15ı 75% Load	m 100% Load	7m 75% Load	1 100% Load	1m 75% Load		15m 75% Load		7m oad 75% Load		1m Load 75% 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>						
Ge Mo	nerator Set del	15 75% Load	m 100% Load	7m 75% Load	n 100% Load	1m 75% Load		15m 75% Load	า 100% Load	7m 75% Load	100% Load	1m 75% 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	W	Н	Weight	Fuel Tank Capacity
	in mm	in mm	in mm	in Kg	in L
Normal	1850	750	1240	550	70L
Super Silent	2000	1000	1280	630	78L



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

