P 80 - 88 Data Sheet

Output Ratings		
Voltage, Frequency	Prime	Standby
400V, 50HZ	80.0VA/64.0KWe	88.0KVA/70.4KWe
220/127, 60 HZ	91.3KVA/73.0KWe	100.3KVA/80.3KWe

Ratings and Performance Data			
Engine Make & Model:	Perkins 1104A-44TG2		
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA44.3S3	TAL044B	LINZ PRO 22SC/4
Control Panel	DSE6020MK2		
Base Frame	Heavy duty fabricated steel		
Circuit breaker type	3Pole MCB LS-ABB-Schneider 150A		
Frequency	50-60 Hz		
Engine Speed	1500-1800rpm		
Fuel Tank Capacity for OpenType	120L		

Exhaust Sytstem		50hz	60hz
Maximum Allowable Back Pressure: kPa		15 kPa	18kPa
Exhaust Gas flow m^3/min			
	Prime	15.2	18.4
	Standby	16.3	20.4
Exhaust Gas temperature °C			
	Prime	514	543
	Standby	517	574

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 above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1.

Specification	
Number of cylinders	4 vertical in-line
Bore and stroke	105 x 127 mm | 4.1 x 5 in
Displacement	4.4 litres | 268.5 in3
Aspiration	TURBOCHARGED AIR TO AIR CHARGE COOLED
Cycle	4 stroke
Combustion system	Indirect injection
Compression ratio	17.25:1
Rotation	Anti-clockwise, viewed on flywheel
Total lubricating capacity	8.0 litres | 2.1 US gal
Cooling system	Water cooled
Total coolant capacity	13 litres | 3.43 US gal
Power Factor	0.8

Technical informaion

Air inlet

-Mounted air filter

Fuel system

Rotary type pump

·Next generation fuel filter

Lubrication system

Wet steel sump with filler and dipstic

Spin-on full-flow lub oil filter

Cooling system

Thermostatically-controlled system with gear-driven circulation pump and belt-driven pusher fan

Mounted radiator, piping and guards

Electrical equipment

12 volt starter motor and 12 volt 65 amp alternator with DC output

Oil pressure and coolant temperature switches

12 volt shut-off solenoid energised to run

Flywheel and housing

1500/1800 rev/min

High inertia flywheel to SAE J620 size 10/11½

SAE 3 flywheel housing

Mountings

Front and rear engine mounting brackets

Alternator Physical Data

Specially adapted to applications

The LSA 44.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

Compliant with international standards

The LSA 44.3 alternator conforms to the main international standards and regulations:

- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA / UL 1146 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 44.3 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Manufactured By Leroy Somer / linz	LSA[1]	TAL[2]	LINZ[3]
Model	**LSA44.3S3**	**TAL044B**	**LINZ PRO 22SC/4**
No. of Bearings:	1	1	1
Insulation Class	H	H	H
Winding Pitch Code:	2/3 (wdg 6)	2/3 (wdg 6S)	2/3 (wdg 6S)
Wires:	12	6	12
Ingress Protection Rating:	IP23	IP23	IP23
Excitation System:	SHUNT	SHUNT	SHUNT
AVR Model:	R220	R120	HVR11
Short-circuit current	-	-	-
Overspeed: rpm	2250 min-1	2250 min-1	2250 min-1
Voltage Regulation: (Steady state)	± 0.5%	± 1%	± 1%
Wave Form NEMA = TIF:	< 50	< 50	< 50
Wave Form IEC = THF:	< 2%	< 2%	< 2%
Total Harmonic content LL/LN:	< 4%	< 4%	< 4%
Radio Interference:	Suppression is in line with European Standard EN55011		
Radiant Heat: kW (Btu/min)	5810	5810	5810

Alternator Performance Data	50Hz			60 HZ
Data Item	415/240V	400/230V	380/220V	220/127V
Motor Starting Capbility KVA	125	116	105	*
Short Circuit Capacity %	*	*	*	*
Reactances: Per Unit				
Xd	2.88	3.1	3.43	
X'd	0.24	0.26	0.29	
X''d	0.092	0.099	0.11	

Fuel consumption	1500rpm	1800rpm
Standby power	20.5L/H	24.4L/H
Prime power	18.7L/H	22.3L/H
75%	14.0L/H	16.9L/H
50%	9.7L/H	11.9L/H

Fuel Tank Capacity for OpenType 120L

Recommedned fuel Type and oil Type

Fuel specification: BS 2869:

Part 2 1998 Class A2 or DIN EN 590. Lubricating oil: 15W40 to API CG4.

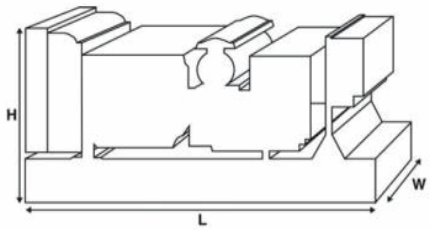
Controller Technical specs

Make And Model **Deep Sea PLC 6020 MK2**

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
- 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
- Battery voltage monitoring
- 3 engine maintenance alarms
- CAN, MPU and alternator speed sensing in one variant



Dimensions And Weights

Length (L)	Width (W)	Height (H) in	Weight (Kg)
in mm 2050	in mm 770	mm 1260	950

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

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.

BAS CERTIFICATION BAS ISO 9001 REGISTERED

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

Sound Proof P-80

Our compact design of the P80 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

* 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

Robust Corrosion Free Enclosure

*Galvanised steel protected by powder coat paint
*Black finish stainless steel locks and hinges
* Zinc plated / stainless steel fasteners

Transportability

*Central Lifting points ontop of the roof
*Two Forklift pocket at the bottom of the Base frame facilitating handling

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

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

Generator Set Model		50Hz 15m 75% Load	50Hz 15m 100% Load	50Hz 7m 75% Load	50Hz 7m 100% Load	50Hz 1m 75% Load	50Hz 1m 100% Load	60Hz 15m 75% Load	60Hz 15m 100% Load	60Hz 7m 75% Load	60Hz 7m 100% Load	60Hz 1m 75% Load	60Hz 1m 100% Load
P-80	Prime	68.8	68.8	75.0.6	75.8	78.0	78.2	72.4	73.0	76.1	76.5	80.2	80.9
	Standby	68.8	68.8	75.0.6	75.8	78.0	78.2	72.4	73.0	76.1	76.5	80.2	80.9

Sound Pressure Levels (dBA) Super Silent Enclosure

Generator Set Model		50Hz 15m 75% Load	50Hz 15m 100% Load	50Hz 7m 75% Load	50Hz 7m 100% Load	50Hz 1m 75% Load	50Hz 1m 100% Load	60Hz 15m 75% Load	60Hz 15m 100% Load	60Hz 7m 75% Load	60Hz 7m 100% Load	60Hz 1m 75% Load	60Hz 1m 100% Load
P-80	Prime	65.2	65.5	67.9	68	72.2	72.6	68.3	69.2	73.1	73.6	76.2	77.0
	Standby	65.2	65.5	67.9	68	72.2	72.6	68.3	69.2	73.1	73.6	76.2	77.0

Dimensions and Weights

Genset Model	L in mm	W in mm	H in mm	Weight in Kg	Fuel Tank Capacity in L
Normal	2650	1100	1530	1300	130
Super Silent	2940	1100	1580	1450	137

RMC

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

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