

Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50HZ	180KVA/144KWe	200KVA/160KWe	
220/127, 60 HZ	196.9kVA/157kWe	218.8kVA/175kWe	

Ratings	and	Performance	Data

Engine Make & Model:	Perkins 1106A-70	OTAG3	
Alternator Make and Model	OPTION A	OPTION B	OPTION C
	LSA46.3 S2	TAL046A	LINZ PRO 28SB/4

	LSA46.3 S	2 TAL046	SA LIN	Z PRO 28SB/4	
Control Panel		DSE6020MK2			
Base Frame	Heavy	duty fabricat	ed steel		
Circuit breaker type	3Pole I	MCCB LS-ABB-	Schneider 300)A	
Frequency		50 OR 60 H	lz		
Engine Speed		1500 OR 180	00rpm		
Fuel Tank Capacity FOR O	pen Type	220L			
Exhaust Sytstem		50hz	60hz		
Maximum Allowable	e Back Pressure:				
kPa		6.0 kPa	6.54kPa		
Exhaust Gas flow m	n³/min				
	Prime	31.55	39.4		
	Standby	39.4	47.2		
Exhaust Gas temperature	· °C				
	Prime	538	545		
	Standby	538	545		

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 6 vertical in-line Bore and stroke 105 x 135 mm 4.13 x 5.31 in Displacement 7 litres 428 in3 TURBOCHARGED AFTERCOOLED Aspiration Cycle 4 stroke Indirect injection Combustion system Compression ratio 16:01 Rotation Anti-clockwise, viewed on flywheel Total lubricating capacity 16.5 litres 1 4.36 US gal Cooling system Water cooled Total coolant capacity 21 litres 5.5 US gal

0.8

Air inlet

-Mounted air filter

Technical informaior

Fuel system

Power Factor

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

Mounting

Front and rear engine mounting brackets

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Alternator Physical Data

Specially adapted to applications

The LSA 46.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental,

telecommunications, etc.

Compliant with international standards

The LSA 46.3 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 46.3 is designed, manufactured and marketed in an ISO 9001 and ISO 14001 environment.

Manufactured By Lero	y Somer EU/	linz EU	LSA ¹	TAL ²	LINZ ³		
Model			LSA46.3 S2	TAL046A	LINZ PRO 28SB/4		
No. of Bearings:	1						
Insulation Class			Н	Н	Н		
Winding Pitch Code:			2/3 (wdg 6)	2/3 (wdg 6S)	2/3 (wdg 6S)		
Wires:			12	6	12		
Ingress Protection Rati	ngi		IP23	IP23	IP23		
Excitation System:	rig.		SHUNT	SHUNT	SHUNT		
AVR Model:			R250	R120	HVR11		
Short-circuit current			NZ30	11120	LIANTI		
Overspeed: rpm			2250 min-1	2250 min-1	2250 min-1		
Voltage Regulation: (St	randy stata)		± 0.5%	± 1%	± 1%		
Wave Form NFMA = TI			< 50	< 50	< 50		
Wave Form IEC = THF:			< 2%	< 2%	< 2%		
Total Harmonic conten	t LL/LN:		< 2.5%	< 2.5%	< 4%		
Radio Interference:	•	791 interferen	ce suppression con	forming to standa	rd EN 61000-6-3, EN		
		.000-6-2, EN 5	5011 group 1 class	B standard for EU			
Radiant Heat: kW (Btu,	/min)		12618	12618	12618		
Alternator		!	50Hz		60 HZ		
	nance Data						
Data Item	400V	480V			220/127V		
Motor Starting	241	260			*		
Capability KVA							
Short Circuit *		*	*		*		
Capacity %							
Reactances: Per Unit							
Xd	366	382					
- Au							
X'd	16.1	16.7					

*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.

Certified against the requirements of EU 2007 (EU 97/68/EC Stage II) legislation for nonroad mobile machinery, powered by constant speed engines.

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.

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	44.6L/H	50.5L/H	
Prime power	41.6L/H	42.8L/H	
75%	31.8L/H	38.1L/H	
50%	20.1L/H	24.1L/H	
Fuel Tank Capacity FOR Open	Type 220L		
n 1 10 1= 1	4 -		

Recommedned fuel Type and oil Type

Fuel specification: Class A2 Diesel or BSEN590

. Lubricating oil: 15W40 to API CG4.

Controller Technical specs

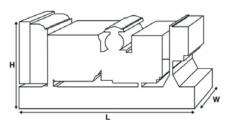
Make And Deep Sea PLC 6020 MK2 Model

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 Real time cloc
- •6 configurable digital inputs
- •Support for 0-10 V & 4-20 mA oil pressure sensors
- Configurable staged loading outputs one variant

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



Dimensions And Weigh	its		
Length (L)	Width (W)	Height (H)	Weight (Kg)
in mm	in mm	in mm	1400
2850	990	175	

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 P-180 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

Transportability

- *Central 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

50Hz

50Hz

Robust Corrosion Free Enclosure

60Hz

60Hz

- *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

Generator Set Model		15		7r		1r		15			m	1n	
Mode		75% Load	100% Load	75% Load	100% Load								
P-180	Prime	71.8	71.9	79.6	79.8	80.0	80.2	72.4	72.6	79.1	79.5	80.2	80.9
P-180	Standby	71.8	71.9	79.6	79.8	80.0	80.2	72.4	72.6	79.1	79.5	80.2	80.9

Sound Pressure Levels (dBA) Super Silent Enclosure

Generator Set Model		15	im		m	1r	n	15:	m	71	m	1m	<u> </u>
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
P-180	Prime	69.2	69.5	73.9	74.2	77.2	77.6	69.5	69.8	74.2	74.6	77.2	77.8
P-180	Standby	69.2	69.5	73.9	74.2	77.2	77.6	69.5	69.8	74.2	74.6	77.2	77.8

Dimensions and Weights

Genset Model	L	W	Н	Weight	Fuel	
	in mm	in mm	in mm	in Kg		
Normal	3650	1400	1975	1900	380L	
Super Silent	4150	1600	2050	2300	550L	

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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

