

P 45 - 50 **Data Sheet**

	-		
Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50HZ	45.0VA/36.0KWe	49.6KVA/39.7KWe	
220/127, 60 HZ	53.1KVA/42.5KWe	58.7KVA/46.9KWe	

Ratings and Performance Data

Engine Make & Model:	Perkins 1103A-33TG1					
Alternator Make and Model	OPTION A	OPTION B	OPTION C			
	LSA42.3M7	TAL042F	LINZ PRO 18F/4			

Control Panel	DSE6020MK2
Base Frame	Heavy duty fabricated steel
Circuit breaker type	3Pole MCB LS-ABB-Schneider 65A
Frequency	50-60 Hz
Engine Speed	1500-1800rpm
Fuel Tank Capacity for OpenType	72L
Exhaust Sytstem	50hz 60hz
Maximum Allowable Back Pre	essure:

Fuel Tank Capacity for Opentyp	/ZL			
Exhaust Sytstem	50hz	60hz		
Maximum Allowable Back				
kPa	10 kPa	15kPa		
Exhaust Gas flow m³/min				
	Prime	7	8.8	
	Standby	7.7	9.5	
Exhaust Gas temperature °C				
	Prime	492	510	
	Standby	537	551	

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

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

Number of cylinders 3 vertical in-line 105 x 127 mm Bore and stroke 4.1 x 5 in Displacement 3.3 litres 201 in 3 TURBOCHARGED Aspiration Cycle 4 stroke Combustion system Indirect injection Compression ratio 17.25:1 Anti-clockwise, viewed on flywheel Rotation Total lubricating capacity 7.9 litres 2.1 US gal Cooling system Water cooled

10.2 litres

0.8

Total coolant capacity Power Factor Technical informaion

-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

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

Mounted radiator, piping and guards

Electrical equipment

Cooling system

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

Data Sheet P 45 - 50







2.7 US gal

Alternator Physical Data

Specially adapted to applications

The LSA 42.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental,

telecommunications, etc.

Compliant with international standards

The LSA 42.3 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 42.3 is designed, manufactured and marketed in an ISO 9001 and ISO 14001 environment.

Manufactured By Leroy Somer / I	inz LS <i>F</i>	N¹ TAI	LINZ	³ -	
Model		LSA42.3M7	TAL042F	LINZ PRO 18F/4	
No. of Bearings:		1	1	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 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:	EN 61000-6-3, EN 61000-6-2, EN 55011 group 1 class B				
Radiant Heat: kW (Btu/min)		4022	4022	4022	
Alternator	50H	łz	60 H	łZ	
Performance Data					
Data Item 415/240V	400/230V	380/220V		220/127V	

, ,	,			
Alternator		50	Hz	60 HZ
Performance	Data			
Data Item	415/240V	400/230V	380/220V	220/127V
Motor Starting	227	130	105	*
Capbility KVA				
Short Circuit	*	*	*	*
Capacity %				
Reactances: Per Unit				
Xd	272	245		
X'd	15	13.5		
X''d	8.2	7.4		

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

Fuel consumption	1500rpm	1800rpm
Standby power	11.7L/H	14.3L/H
Prime power	10.8L/H	12.9L/H
75%	8.2L/H	9.9L/H
50%	5.83L/H	7.1L/H
B. Martin E. H. E. H. Committee	701	

Built-In Fuel Tank Capacity:

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 Deep Sea PLC 6020 MK2

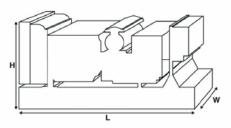
Model **AUTO START AND AUTO MAINS FAILURE CONTROL MODULES**

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)	Width (W)	Height (H)	Weight (Kg)
in mm	in mm	in mm	810
1700	770	1250	

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 30-45-60 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

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

Sound Pressure Levels (dBA) Normal Enclosure

Robust Corrosion Free Enclosure

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

			<u>50Hz</u>					<u>60Hz</u>					
Generator Set		15m		7m		1m		15m		7m		1m	
Model		75% Load 100% Load		75% Load 100% Load		75% Load 100% Load		75% Load 100% Load		75% Load 100% Load		75% Load 100% Load	
P30	Prime	61.8	61.8	67.6	67.8	72.1	74.7	61.6	61.9	67.6	67.9	79.8	80.2
	Standby	61.7	61.8	67.7	67.8	74.0	75.3	61.7	62.0	67.7	68.0	79.9	80.4
P45	Prime	61.2	61.3	67.2	67.3	79.4	79.5	63.7	64.0	69.7	70.0	82.6	82.8
	StandBy	61.3	61.3	67.3	67.3	79.4	79.5	63.8	64.0	69.8	70.0	82.7	82.9
P60	Prime	61.6	61.5	67.6	67.5	80.5	80.4	62.4	62.7	68.4	68.7	81.9	82.3
	Standby	61.6	61.3	67.6	67.3	80.5	80.3	62.5	62.9	68.5	68.9	82.0	82.5

Sound Pressure Levels (dBA) Super Silent Enclosure

			30112					00112					
Gen Mod	erator Set lel	15 75% Load	im 100% Load	7ı 75% Load	m 100% Load	1r 75% Load	n 100% Load	15 75% Load			m 100% Load	1n I 75% Load	n 100% Load
P30	Prime Standby	58.8 58.8	58.8 58.8	63.6 63.6	63.8 63.8	65.9 65.9	66.2 66.2	58.8 58.8	58.8 58.8	63.6 63.6	63.8 63.8	65.9 65.9	66.2 66.2
P45	Prime StandBy	57.2 57.2	57.3 57.3	62.2 62.2	62.3 62.3	65.4 65.4	65.5 65.5	57.2 57.2	57.3 57.3	62.2 62.2	62.3 62.3	65.4 65.4	65.5 65.5
P60	Prime Standby	57.6 57.6	57.5 57.5	62.6 62.6	62.5 62.5	65.5 65.5	65.4 65.4	57.4 57.4		62.4 62.4		65.9 65.9	65.9 65.9

Dimensions and Weights

Genset Model	L	w	н	Weight	Fuel Tank Capacity
	in mm	in mm	in mm	in Kg	in L
Normal	2300	1000	1330	1050	110L
Super Silent	2670	1100	1480	1150	121L

Images are the property of Rich Motor company FZC

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

