

F 030 - 700	Data Silect		
Output Ratings	· ·		
Voltage, Frequency		Prime	Sta

220/127, 60 HZ *	625KVA/500K	we	68/KVA/550KWe	
*Not Applicable for TAL				
Ratings and Performance Dat	a			
Engine Make & Model:	Perkins 2806A-E1	.8TAG2A		
Alternator Make and Model	OPTION A	OPTION B	OPTION C	

TAL047 F

650KVA/520KWe

LSA 49.1 S4

700KVA/560KWe

Control Panel		DS	SE6020MK2						
Base Frame		Heavy	duty fabricated s	ıty fabricated steel					
Circuit breaker type		3Pole MCCB LS-ABB-Schneider 1000A							
Frequency	50 OR 60								
Engine Speed		1500 -1800							
Fuel Tank Capacity	for open ty	ype	600L						
Exhaust Sytstem			50hz	60hz					
Maximum Allo	wable Back	Pressure:							
	kPa		6.0 kPa	-					
Exhaust Gas flow	m³/min								
		Prime	96	109					
		Standby	104	118					
Exhaust Gas tempera	ture °C			-					
		Prime	568	481					
		Standby	571	489					

400V, 50HZ

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 and DIN 6271

Number of cylinders 6 vertical in-line Bore and stroke 145 x 183 mm 5.7 x 7.2 in Displacement 18.1 litres 1104 in3 Aspiration Turbocharged and air-to-air charge cooled Cycle 4 stroke Indirect injection Combustion system 14.5:1 Compression ratio Anti-clockwise, viewed on flywheel Rotation Total lubricating capacity 16.4 US gal 62 litres Cooling system Water cooled Total coolant capacity 16.1 US gal 0.8 Power Factor

Air inlet

Mounted air filter and turbocharger

Technical informaion

Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control

Governing to ISO 8528-5 class G2 with isochronous capability

Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator Fuel cooler

Wet full aluminium sump with filler and dipstick

Full-flow replaceable 'Ecoplus' filters /Oil cooler integral with filter header

Cooling system

Thermostatically-controlled system with gear-driven circulation pump and belt-driven pusher fan / Radiator supplied loose incorporating air-to-air charge cooler

24 volt starter motor and 24 volt 70 amp alternator with DC output

Oil pressure and coolant temperature switches

12 volt shut-off solenoid energised to run

Electronic Control Module (ECM) mounted on engine with wiring looms and sensors

Flywheel and housing

1500/1800 rev/min

l High inertia flywheel to SAE J620 size 18

Aluminium SAE 0 flywheel housing

Mountings

Front and rear engine mounting brackets

Data Sheet P 650 - 700







Alternator Physical Data

The LSA 49.1 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental,

telecommunications, etc.

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA 49.1 alternator conforms to the main international standards and regulations:

- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA / UL 1446 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 49.1 is designed, manufactured and marketed in an ISO 9001 environment and ISO

11001.								
Manufactured By Lero	y Somer / linz	Europe	LSA ¹	TAL ²	LINZ ³			
Model			LSA 49.1 S4	TAL047 F	•			
No. of Bearings:			1	1	-			
Insulation Class			Н	Н	-			
Winding Pitch Code:			2/3 (wdg 6)	2/3 (wdg 6S)	-			
Wires:			6	6	-			
Ingress Protection Rati	ng:		IP23	IP23	-			
Excitation System:			SHUNT	SHUNT	-			
AVR Model:			R450	R150	-			
Overspeed: rpm			2250 min-1	2250 min-1	-			
Voltage Regulation: (St	eady state)		± 0.5%	± 1%	-			
Wave Form NEMA = TI	F:		< 50	< 50	-			
Wave Form IEC = THF:			< 2%	< 2%	-			
Total Harmonic conter	it LL/LN:		< 2.5%	< 2.5%	-			
Radio Interference:	R 79	1 interference	suppression confor	ming to standard	EN 61000-6-3, EN 61000-			
- 10 1		EN 55011 gro	up 1 class B standar					
Radiant Heat: kW (Btu,	/min)		29340	29340	-			
Alternator		50)Hz	(50 HZ			
	ance Data							
Data Item	400V	480V			220/127V			
Motor Starting	1763	1650			*			
_	1/03	1030						
Capability* KVA	*	*	*		*			
Short Circuit					*			
Capacity** %	300	300						
Reactances: Per Unit								
Xd	343	343						

^{*}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

17.5 14

Emissions

X'd

17.5

Certified against the requirements of EU 2007 (EU 97/68/EC Stage II) legislation for non-road 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.

Standby power	143L/H		141L/H
Prime power	132L/H		127L/H
75%	99L/H		95L/H
50%	97L/H		66L/H
Fuel Tank Capacity	for open type	600L	

1500rpm

Recommedned fuel Type and oil Type

Fuel specification: Recommended fuel to conform to BS 2869 1998 CLASS A2 or BSEN590.

. Lubricating oil: 15W40 to API CG4.

Controller Technical specs

Fuel consumption

Deep Sea PLC 6020 MK2 Model

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

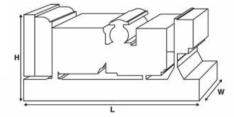
Key

- 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

1800rpm

- 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



Dimensions And W			
Length (L)	Width (W)	Height (H)	Weight (Kg
in mm	in mm	in mm	5300
3750	1540	2170	

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







Our compact design of the P-650 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

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		15m		7m		1m		15m		7m		1m	
		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-650	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-030	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

30112						OUTE							
Generator Set Model		15	15m 7m 1m				n	15:	m	7	7m 1m		
Mode	el	75% Load	100% Load										
P-650	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-650	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	4840	1950	2550	7200	930L	
Super Silent	5250	2000	2625	7900	1071L	

Images are the property of Rich Motor company FZE

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

