

Output Ratings						
Voltage, Frequency	ime	Standby				
400V, 50HZ		1022KVA/818	KWe	1125KVA/9	00KWe	
220/127, 60 HZ *		995KVA/796K	We	1097KVA/8	78KWe	
*Not Applicable for TA	۸L					
Ratings and Performa	nce Data					
Engine Make & Model	: Perk	ins 4008TAG2				
Alternator Make and M	√lodel	OPTION A	OPTION B	1	OPTION C	
		LSA 49.1 L11	TAL049 E		-	
Control Panel		DSE 732	0MKII			
Base Frame		Heavy duty f	abricated steel			
Circuit breaker type		3Pole ACB LS	-ABB-Schneider	1600A		
Frequency		50 O	R 60			
Engine Speed		1500	OR 1800			
Fuel Tank Capacity for	open type		1000L			
Exhaust Sytstem			50hz	60hz		
Maximum Allo	wable Back F	ressure:				
	kPa		3.0 kPa	-		
Exhaust Gas flow	m³/min					
		Prime	201	202		
		Standby	201	202		
Exhaust Gas temperature °C				_		
		Prime	500	500		
		Standby	500	500		
		- · · · · - ·				

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

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

represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514 and DIN 6271

Number of cylinders 8 vertical in-line Bore and stroke 160 x 190 mm 6.3 x 7.5 in Displacement 30.561 litres 1865 in 3 Aspiration Turbocharged and air-to-air charge cooled Cvcle 4 stroke Combustion system direct injection Compression ratio Rotation Anti-clockwise, viewed on flywheel Total lubricating capacity 165.6 litres 43.7 US gal Cooling system
Total coolant capacity Water cooled 162 litres | 42.8 US gal Power Factor

Air inlet

Mounted air filter and turbochargers

Technical informa

I Unit fuel injectors with lift pump and hand stop control

I Electronic governor to ISO 3046 Part 4 class A1

I Full-flow spin-on fuel oil filters

Lubrication system

I Wet sump with filler and dipstick

I Full-flow spin-on oil filters

I Engine jacket water/lub oil temperature stabiliser

Cooling system

Twin thermostats, water pump

System designed for ambients up to 35°C or 50°C Radiator supplied loose incorporating air-to-air charge cooler

I Gear driven circulating pump $\;\;$ I $\;\;$ Twin thermostats

I Crankshaft pulley for fan drive | Electrical Equipment

124 volt starter motor and 24 volt/40 amp alternator with integral regulator and DC output | High coolant temperature switch

I Low oil pressure switch | I Overspeed switch and magnetic pickup

I Turbine inlet temperature shutdown switch I 24 volt stop solenoid (energised to run)

1500/1800 rev/min

I High inertia flywheel to SAE J620 size 18

Aluminium SAE 0 flywheel housing

Front and rear engine mounting brackets

Data Sheet P 1000-1100







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 14001

	0 = 11/11		0.1 =	2	
				AL ²	
Model			LSA 49.1 L11	TAL049 E	-
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:			AREP OR PMG	SHUNT	-
AVR Model:			R450	R150	-
Overspeed: rpm			2250 min-1	2250 min-1	-
Voltage Regulation: (St		± 0.5%	± 1%	-	
Wave Form NEMA = TI		< 50	< 50	-	
Wave Form IEC = THF:			< 2%	< 2%	-
Total Harmonic conten	< 4%	< 4%	-		
Radio Interference: R 791 interference s					55011 group 1 class B
			n zone (CE marking)		
Radiant Heat: kW (Btu,		41710	41710	-	
Alternator		50Hz		60	HZ
Performance Data					
Data Item	400V	480V		22	0/127V
Motor Starting	2297	2465			*
Capability* KVA					
Short Circuit	*	*	*		*
Capacity** %	300	300			
Reactances: Per Unit					
Reactances: Per Unit Xd	346	360			

*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

14.9

generator or AREP excitation

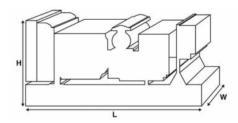
X''d

Emissions

for non-road mobile machinery, powered by constant speed engines.

13.1

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.



Dimensions And Weights							
Length (L) in	Width (W) in	Height (H) in	Weight (Kg)				
mm	mm	mm	5710				
4900	2050	2470	3710				

Fuel consumption	1500rpm	1800rpm
Standby power	240/H	249L/H
Prime power	215L/H	224L/H
75%	162L/H	162L/H
50%	111L/H	108L/H
Fuel Tank Capacity for open type	1000L	

Recommedned fuel Type and oil Type

Full specification: BS2869: Class A1 + A2 or ASTM D975 No 2D..

Recommended lubricating oil to conform with the specification of APICD or MILL 1, 2100C

Controller Technical specs

Make And Deep Sea PLC 7320 MK2

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

Key Feature

- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- · Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- 3 phase mains (utility) sensing and protection (DSE7320 MKII only)
- Automatic load transfer control (DSE7320 MKII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)
- kW and kvar overload and reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
 - 3 configurable maintenance
- alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite
 PC Software for simplified

- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 2 configurable volt-free relay outputs
- 6 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of RS232 and RS485 communication ports
- True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.
- MODBUS RTU support with configurable MODBUS pages.
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Modules can be integrated into building management systems (BMS) using MODBUS RTU

Warrantv

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 P-1000 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
- * Buil In Ladder

Transportability

- * 4 corner 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

- *20 Feet ISO Container
- * 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

50Hz 60Hz

Generator Set Model 20'Containaer	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-1000	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
	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

Dimensions and Weights

Genset Model	L	w	Н	Weight	Fuel	
P-1000 20' Container	in mm	in mm	in mm	in Kg		
	6060	2440	2000	12000	12001	

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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

