





Available as an open set: GFE1650PLO

Engine Perkins 4012 - 46TAG2A	Alternator Leroy Somer LSA50.2L8	Model GFE1650PLC (Canopied)				
50Hz	1500rpm	3-Phase		φ = 0.8		issions N/A
Ratings	Prime Power		Standby Power		Rated current	Fuel consumption
Voltage	(PRP)		(ESP)		Amps	@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	1200	1500	1320	1650	2165	301
Ratings		nerator sets are rat nerator sets are rat	•			
Prime output	This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.					
Standby output	• • • •	cable for supplying re. No overload is p		•) in the event of a	ı

The above ratings are in accordance with ISO8528-1 and ISO3046-1. Standard reference conditions: 25°C, 100m A.S.L., 30% relative humidity.

Engine Perkins 4012 - 46TAG2A

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		8 cyl / vertical in-line	
	Displacement	Litres	45.8	
	Aspiration		Turbocharged	
	Combustion system		Direct injection	
	Governor type		Electronic	
	Bore / stroke	mm	160 x 190	
	Compression ratio		13.6:1	
	Engine power (net)	kWm	Prime: 1331 Standby: 1459	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	331	
system	Fuel consumption at 100% Prime Power	Litres/hour	301	
,	Fuel consumption at 75% Prime Power	Litres/hour	237	
	Fuel consumption at 50% Prime Power	Litres/hour	162	
	Standard fuel tank capacity	Litres	N/A	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Mechanically governed		No	
fuel system	Rotary type pump		YES	
	Ecoplus fuel filter		YES	
Oil	Total oil system capacity	Litres	177	
system	Maximum sump capacity	Litres	N/A	
	Wet sump with filler and dipstick		YES	
	Spin-on oil filter		YES	
Cooling	Total system capacity			
system	- With radiator	Litres	210	
	- Without radiator	Litres	N/A	
	Thermostat operation range	°C	up to 40°C	
	Maximum top tank temperature	°C	N/A	
Electric	Electrical system voltage	V	24	
system	Battery		 Maintenance-free	
,	Connecting cables		Available as option	
Available	Battery charger		Available as option	
options	Engine water heater		Available as option	
	Battery isolator switch		Available as option	

Alternator

Units General Manufacturer / brand Leroy Somer data Model LSA50.2L8 Coupling / number of bearings Flexible Disc / Single Bearing Phase / Poles 3-Phase / 4-Pole Cos Φ = 0.8 Power factor AVR Regulation Yes Voltage Regulation ±1 % н Insulation class IP23 Drip proof Shunt Excitation Altitude ≤1000 m 2250 Overspeed min -1

Leroy Somer LSA50.2L8

DSE Controller Summary

Controller model / Deepsea DSE	Optional:	Standard:	Optional:	Optional:
	DSE4520	DSE6110	DSE7310/20	DSE8610/20
Controller photos		ин (Сарана) (С		
Standard supply	0	0	•	0
Viewable parameters				
Phase voltage	×	3	3	3
Current	Instrumentation	•	•	•
Frequency	•	•	•	•
Active power	0	•	•	•
Reactive power	0	•	•	•
Apparent power	×	•	•	•
Power factor	0	•	•	•
Electric energy metering	×	•	•	•
Generator protection				
Abnormal voltage	•	•	•	•
Overcurrent warning	0	•	•	•
Overcurrent protection	•	•	•	•
Over frequency protection	•	•	•	•
Short circuit protection	MCCB / •	MCCB / •	MCCB / •	MCCB / •
Engine figure				
Oil pressure	•	•	•	•
Water temperature	•	•	•	•
Fuel meter / fuel sensor	•/○	•/0	•/0	•/0
Speed	•	•	•	•
Battery voltage	•	•	•	•
Elapsed time	•	•	•	•
Engine protection				
Low oil pressure warning	×	•	•	•
Low oil pressure protection	•	•	•	•
High temperature warning	0	•	•	•
High temperature protection	•	•	•	•
Overspeed warning	×	•	•	•
Overspeed protection	0	•	•	•
Alternator charger	•	٠	•	٠
Functions				
Remote start	٠	•	٠	•
AMF (Auto Main Failure)	•	•	•	•
Programmable input	•	•	•	•
Programmable output	•	•	•	•
Expand module	×	0	0	0
Communication function	×	×	RS232 / 484	RS232 / 485
Communication port	USB	USB	RS232 / 484	RS232 / 485
CAN	•	0	•	•
Service indicate	0	0	•	•
Fault history	•	•	•	•
Gen-gen synchronising	×	×	×	•
Gen-mains synchronising (20)	×	×	×	•

Remark: • Standard supply • Available as optional × Not available

Enclosure / Canopy

"Ensure a quieter life with our sound attenuation system."

Features

Extremely rugged and highly corrosion resistant construction
Unique appearance with high sound absorbing and thermal properties
8-12 hours built-in fuel tank integrated into the skid-mount base
Excellent design and craftmanship
Full weatherproof enclosure, suitable for operations in harsh condictions
Thermo-acoustic installation which can withstand fire, high temperature and severe conditions
Residential exhaust muffler manufactured from galvanised steel
High quality polyester powder paint
Designed on modular principles with interchangable components permitting on-site repairs
Easy commissioning and maintenance
Control panel viewing window with lockable access door for quick, safe and easy monitoring
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Efficient management of cooling air to avoid high water temperature

Transportability

Top access lifting points for crane lifting Fork lift pockets for easy moveability

Overall dimensions, weight and noise

Frame type	Dimensions	Weight	Base tan	< @100% load	Noise level
	(L x W x H) mm	kg	Hours	Litres	dB(A) at 7m
Canopied	9100x2600x3950	17550	N/A	N/A	86
• •				H	
BACK VIEW	SIDE VIEW		FRONT VIEW		

Sound-attenuated or open option

Automatic Transfer Switch

A.T.S - 4 Poles

GFE offers as an optional accessory, not only a changeover switch but also an integrated mains detection and switch system for your 24 hour power protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic retransfer once it comes back.

System advantages

Automatically transfer and re-transfer load from main power to gen-power without operator intervention (both automatic and manual)

ATS Controller (AMF function), seamless integration with all GFE ATSs

Available from 32 - 4000A

Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Designed to interface seamlessly with GFE generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



*image for illustration purposes only, actual product may differ

Warranty

GFE distributors, dealers or authorized representatives have warranty providing the operator performs a start-up within 6 months of the date of shipment from the factory, warranty coverage will begin on the start-up date (registering the start-up date to GFE within 6 months is essential and can be enforced). This warranty does not apply to malfunction caused by damages, unreasonable use, misuse, repair or service by unauthorized persons, or normal wear and tear. Warranty is supplied strictly in accordance with GFE's terms and conditions of sale and as per the warranty manual available on request.

Warranty coverage

Generators used with commercial utility source: One (1) year or 1000 hours (whichever occurs first) from date of shipment from the factory or registered start-up date.

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