





Available as an open set: GFE110PLO

Engine Perkins 1104C-44TAG2	Alternator Leroy Somer TAL044D	Model GFE110PLC (Canopied)				
50Hz	1500rpm	3-Phase	Power Factor			ssions 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	80	100	88	110	144	22.6
Ratings	All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at unity or 1.0 power factor.					
D :	-					
Prime	This rating is applicable for supplying continuous electrical power at variable load.					
output	There is no limitation to the annual hours of operation and this model can supply					
Standby output	10% overload power for 1 hour in 12 hours. This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.					

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 1104C-44TAG2

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
-	Number of cylinders / arrangement		4 cyl / vertical in-line	
	Displacement	Litres	4.41 L	
	Aspiration		Turbocharged	
	Combustion system		Direct injection	
	Governor type		Electronic	
	Bore / stroke	mm	105 x 127	
	Compression ratio		18.23:1	
	Engine power (net)	kWm	Prime: 93.6 Standby: 103	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour		
system	Fuel consumption at 100% Prime Power	Litres/hour	22.6	
•	Fuel consumption at 75% Prime Power	Litres/hour	17.1	
	Fuel consumption at 50% Prime Power	Litres/hour	11.8	
	Standard fuel tank capacity	Litres	107	
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	8	
system	Maximum sump capacity	Litres	N/A	
-,	Wet sump with filler and dipstick		YES	
	Spin-on oil filter		YES	
Caalina				
Cooling	Total system capacity - With radiator	Litres	127	
system	- With radiator	Litres	12.6	
		°C	N/A	
	Thermostat operation range	-	up to 40°C	
	Maximum top tank temperature	°C	N/A	
Electric	Electrical system voltage	V	12	
system	Battery		Maintenance-free	
	Connecting cables		Available as option	
Available	Battery charger			
options	Engine water heater			
-	Battery isolator switch			

Alternator

		Leroy Somer TAL044D		
		Units		
General	Manufacturer / brand		Leroy Somer	
data	Model		TAL044D	
	Coupling / number of bearings		Flexible Disc / Single Bearing	
	Phase / Poles		3-Phase / 4-Pole	
	Power factor		Cos Φ = 0.8	
	AVR Regulation		Yes	
	Voltage Regulation		±1 %	
	Insulation class		Н	
	Drip proof	IP23		
	Excitation		Shunt	
	Altitude	m	≤1000	
	Overspeed	min -1	2250	

	DSE	DSE Controller Summary			
Controller model / Deepsea DSE	Optional:	Standard:	Optional:	Optional:	
	DSE4520	DSE6110	DSE7310/20	DSE8610/20	
Controller photos		· · · · · · · · · · · · · · · · · · ·			
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	•	•	•	•	
Functions					
Remote start	•	•	•	•	
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
Side doors allowing 180° opening for easy accessibility
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Side doors allowing 180° opening for easy accessibility Lifting point for easy mobility Lube oil drain and radiator drain Internally mounted exhaust silencers constructed to withstand rough conditions Security and safety

Emergency stop push button mounted on the enclosure exterior for urgent and safe shutdown

Efficient management of cooling air to avoid high water temperature

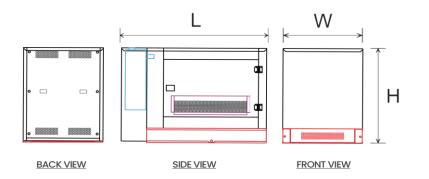
Transportability

Top access lifting points for crane lifting

Baseframe feet to allow access for easy moveability

Overall dimensions, weight and noise

Frame type	Dimensions	Weight	Base tank @100% load		Noise level
	(L x W x H) mm	kg	Hours	Litres	dB(A) at 7m
Canopied	2310x1120x1450	1495	9	215	70.5
Open	1990x720x1340	1074	TBC	107	TBC



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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