

GFE88PLC (Canopied)



Available as an open set: **GFE88PLO**

Engine	Alternator	Model
Perkins 1104A-44TG2	Leroy Somer TAL-044-B	GFE88PLC (Canopied)

50Hz	1500rpm	3-Phase	Power factor Factor $\Phi = 0.8$	Emissions N/A
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Ratings	Prime Power		Standby Power		Rated current	Fuel consumption
Voltage (V)	(PRP)		(ESP)		Amps (A)	@100% load L/h
400	kWe	kVA	kWe	kVA	115	18.7
	64	80	70.4	88		

Ratings All three phase g All three phase generator sets are rated at 0.8 power factor.
All single-phase ξ All single-phase generator sets are rated at unity or 1.0 power factor.

Prime output This rating is app This rating is applicable for supplying continuous electrical power at variable load. There is no limit: There is no limitation to the annual hours of operation and this model can supply 10% overload po 10% overload power for 1 hour in 12 hours.

Standby output This rating is app This rating is applicable for supplying electrical power (at variable load) in the event of a utility power fail 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 1104A-44TG2

		Units	
General performance	Frequency	Hz	50
	Engine speed	r/min	1500
	Number of cylinders / arrangement		4 cyl / vertical in-line
	Displacement	Litres	4.4
	Aspiration		Turbocharged
	Combustion system		Direct injection
	Governor type		Mechanical
	Bore / stroke	mm	105 x 127
	Compression ratio		17.25:1
	Engine power (net)	kWm	Prime: 73.4 Standby: 80.7
Cooling system		Water cooled	
Rotation		Anti-clockwise viewed on flywheel	
Fuel system	Fuel consumption at 110% Prime Power	Litres/hour	20.5
	Fuel consumption at 100% Prime Power	Litres/hour	18.7
	Fuel consumption at 75% Prime Power	Litres/hour	14
	Fuel consumption at 50% Prime Power	Litres/hour	9.7
	Standard fuel tank capacity	Litres	215
Air system	Air inlet		Mounted air filter
	Air filter type		Dry
Fuel and fuel system	Mechanically governed		YES
	Rotary type pump		YES
	Ecoplus fuel filter		YES
Oil system	Total oil system capacity	Litres	8
	Maximum sump capacity	Litres	N/A
	Wet sump with filler and dipstick		YES
	Spin-on oil filter		YES
Cooling system	Total system capacity		
	- With radiator	Litres	13
	- Without radiator	Litres	N/A
	Thermostat operation range	°C	up to 40°C
Maximum top tank temperature	°C	N/A	
Electric system	Electrical system voltage	V	12
	Battery		Maintenance-free
	Connecting cables		Available as option
Available options	Battery charger		
	Engine water heater		
	Battery isolator switch		

Alternator

Leroy Somer TAL-044-B

		Units	
General data	Manufacturer / brand		Leroy Somer
	Model		TAL-A44-C
	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		H
	Drip proof		IP23
	Excitation		Shunt
	Altitude	m	≤1000
	Overspeed	min -1	2250

DSE Controller Summary

Controller model / Deepsea DSE	Optional: DSE4520	Standard: DSE6110	Optional: DSE7310/20	Optional: DSE8610/20
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Controller photos



Standard supply	○	●	○	○
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Viewable parameters

Phase voltage	x	3	3	3
Current	Instrumentation	●	●	●
Frequency	●	●	●	●
Active power	○	●	●	●
Reactive power	○	●	●	●
Apparent power	x	●	●	●
Power factor	○	●	●	●
Electric energy metering	x	●	●	●

Generator protection

Abnormal voltage	●	●	●	●
Overcurrent warning	○	●	●	●
Overcurrent protection	●	●	●	●
Over frequency protection	●	●	●	●
Short circuit protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●

Engine figure

Oil pressure	●	●	●	●
Water temperature	●	●	●	●
Fuel meter / fuel sensor	●/○	●/○	●/○	●/○
Speed	●	●	●	●
Battery voltage	●	●	●	●
Elapsed time	●	●	●	●

Engine protection

Low oil pressure warning	x	●	●	●
Low oil pressure protection	●	●	●	●
High temperature warning	○	●	●	●
High temperature protection	●	●	●	●
Overspeed warning	x	●	●	●
Overspeed protection	○	●	●	●
Alternator charger	●	●	●	●

Functions

Remote start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable input	●	●	●	●
Programmable output	●	●	●	●
Expand module	x	○	○	○
Communication function	x	x	RS232 / 484	RS232 / 485
Communication port	USB	USB	RS232 / 484	RS232 / 485
CAN	●	○	●	●
Service indicate	○	○	●	●
Fault history	●	●	●	●
Gen-gen synchronising	x	x	x	●
Gen-mains synchronising (20)	x	x	x	●

Remark: ● Standard supply ○ Available as optional × Not available

Enclosure / Canopy

“Ensure a quieter life with our sound attenuation system.”

Sound-attenuated or open option

Features

Extremely rugged and highly corrosion resistant construction

Body made from 1.5mm sheet steel components with powder coating

8-12 hours built-in fuel tank integrated into the skid-mount base

Excellent design and craftsmanship

Compact structure and longer service life

Residential silencer

Black powder coated locks and hinges on steel are tested for corrosion resistance

External refuelling port

External paint carries a unique 12 month non-corrosion warranty

Easy commissioning and maintenance

Separated and isolated control module with easily reachable electrical power connections

Side doors allowing 180° opening for easy accessibility

Radiator fill access through cover in canopy roof

Lube oil drain and radiator drain

Manual lube oil pump provided for easy maintenance

Security and safety

Earth leakage protection

40-50mm non-flammable sponge inside

Control panel viewing window in a lockable access door

Emergency stop button mounted on canopy exterior

Fuel fill and battery can only be reached via lockable access doors

Exhaust silencing system enclosed for operator's safety

Efficient management of cooling air to avoid high water temperature

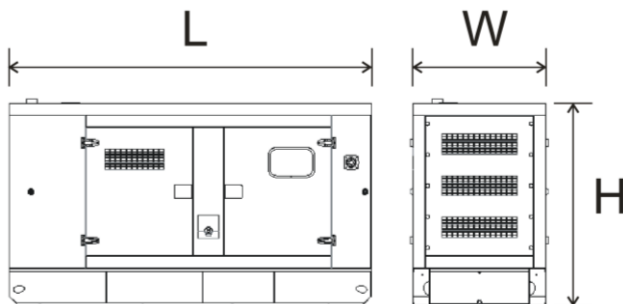
Transportability

Top access lifting points for crane lifting

Baseframe feet to allow access for easy moveability

Overall dimensions, weight and noise

Frame type	Dimensions (L x W x H) mm	Weight kg	Base tank @100% load		Noise level dB(A) at 7m
Canopied	2310x1120x1450	1395	Hours	Litres	67.5
Open	2200x700x1350	975	6	107	TBC



Automatic Transfer Switch

A.T.S - 4 Poles

We offer 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)

Available from 32 - 4000A

Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Easy installation: wall-mounted and floor standing

Drip proof IP42 enclosure



*image for illustration purposes only, actual product may differ

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.