GFE440PLC





Alternator

Engine

Model



Available as an open set: GFE440PLO

Perkins 2206A-E13TAG3	Leroy Somer TAL-047A	GFE440PLC (Canopied)				
50Hz	1500rpm	3-Phase	Power factor Factor $\Phi = 0.8$		Emissions N/A	
Ratings	Prime Power		Standby Power		Rated current	Fuel consumption
Voltage	(PRP)		(E	(ESP)		@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	320	400	360	450	577	81
Ratings	-	nerator sets are ra				
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	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 2206A-E13TAG3

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		6 cyl / vertical in-line	
	Displacement	Litres	12.5	
	Aspiration		Turbocharged and air to air charge cooled	
	Combustion system		Direct injection	
	Governor type		Electronic	
	Bore / stroke	mm	130 x 157	
	Compression ratio		16.3:1	
	Engine power (net)	kWm	Prime: 320 Standby: 360	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	90	
system	Fuel consumption at 100% Prime Power	Litres/hour	81	
-	Fuel consumption at 75% Prime Power	Litres/hour	62	
	Fuel consumption at 50% Prime Power	Litres/hour	42	
	Standard fuel tank capacity	Litres	538	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Mechanically actuated electronically controlled unit		YES	
fuel system	Fuel injectors with full authority electronic control		YES	
	Governing to ISO 8528-5 class G3 with isochronous capability		YES	
	Fuel cooler		YES	
Oil	Total oil system capacity	Litres	40	
system	Maximum sump capacity	Litres	N/A	
3,500	Wet sump with filler and dipstick		YES	
	Oil cooler integral with filter header		YES	
Cooling	Total system capacity			
system	- With radiator	Litres	51	
system	- Without radiator	Litres	TBC	
	Thermostat operation range	°C	up to 50°C	
	Maximum top tank temperature	°C	TBC	
		<u> </u>		
Electric	Electrical system voltage	٧	24	
system	Battery		Maintenance-free	
	Connecting cables		Available as option	
Available	Battery charger			
options	Engine water heater			
	Battery isolator switch			

Alternator Leroy Somer TAL-047A

		Units		
General	Manufacturer / brand		Leroy Somer	
data	Model		TAL-047A	
	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 Controller Summary

	DSL Controller Summ				
Controller model / Deepsea DSE	Optional: DSE4520	Standard: DSE6110	Optional: DSE7310/20	Optional: DSE8610/20	
Controller photos		(+++++++++++++++++++++++++++++++++++++		# THY ®	
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	•	•	•	•	
<u> </u>					
Water temperature	•	•	•	•	
Fuel meter / fuel sensor	•/0	•/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	•	002	•	•	
Service indicate	0	0	•	•	
Fault history	•	•	•	•	
Gen-gen synchronising	×	×	×	•	
Gen-gen syncin onising		^			

 $\textbf{Remark:} \quad \bullet \text{ Standard supply} \quad \circ \text{ Available as optional} \quad \times \text{ Not available}$

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 craftmanship

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

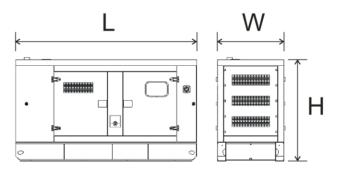
Transportability

Top access lifting points for crane lifting

Fork lift pockets for easy moveability

Overall dimensions, weight and noise

Frame type	Dimensions	Weight	Base tank @100% load		Noise level
	(LxWxH)mm	kg	Hours	Litres	dB(A) at 7m
Canopied	6760X2040X2870	7750	7	538	75
Open	3850×1150×2130	3750	7	538	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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