





Available as an open set: GFE14PLO

Engine Perkins 403A-15G1	Alternator Leroy Somer TAL040C	Model GFE14PLC (Canopied)				
50Hz	1500rpm	3-Phase	Power Factor o			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	10	12.5	11.2	14	21.6	3.7
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.					
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 403A-15G1

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		3 cyl / vertical in-line	
	Displacement	Litres	1.496	
	Aspiration		Naturally aspirated	
	Combustion system		Indirect Injection	
	Governor type		Mechanical	
	Bore / stroke	mm	84 × 90	
	Compression ratio		22.5:1	
	Engine power (net)	kWm	Prime: 12.2 Standby: 13.5	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	4	
system	Fuel consumption at 100% Prime Power	Litres/hour	3.7	
	Fuel consumption at 75% Prime Power	Litres/hour	2.8	
	Fuel consumption at 50% Prime Power	Litres/hour	2	
	Standard fuel tank capacity	Litres	50L	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Mechanically governed		YES	
fuel system	Cassette type fuel injection pump		YES	
	Split element fuel filter		YES	
Oil	Total oil system capacity	Litres	10.6	
system	Maximum sump capacity	Litres	N/A	
-,	Wet sump with filler and dipstick		YES	
	Spin-on full-flow lube oil filter		YES	
Cooling	Total system capacity			
•	- With radiator	Litres	7	
system	- 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	12	
system	Battery		Maintenance-free	
	Connecting cables		Available as option	
Available	Battery charger	Yes		
options	Engine water heater	Yes		
	Battery isolator switch			

Alternator

Leroy Somer TAL040C Units General Manufacturer / brand Leroy Somer data TAL040C Model Coupling / number of bearings Flexible Disc / Single Bearing 3-Phase / 4-Pole Phase / Poles Cos Φ = 0.8 Power factor AVR Regulation Yes Voltage Regulation ±1 % Insulation class н Drip proof IP23 Excitation Shunt Altitude ≤1000 m min -1 2250 Overspeed

	DSE Controller Summary				
Controller model / Deepsea DSE	Optional: DSE4520	Standard: DSE6110	Optional: DSE7310/20	Optional: DSE8610/2	
		DSECTIO	D327310/20	D320010/2	
Controller photos					
				* ***	
Standard supply	0	•	0	0	
Viewable parameters					
Phase voltage	×	3	3	3	
Current	Instrumentation	•	•	•	
Frequency	•	•	•	•	
• •	•	•	•	•	
Active power					
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

Sound-attenuated or open option

"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
Lifting point for easy mobility
Lube oil drain and radiator drain
Internally mounted exhaust silencers constructed to withstand rough conditions
Security and safety
Earth leakage protection

Secure and lockable access doors for fuel fill and battery

Fully guarded cooling fan and battery charging alternator

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

Efficient management of cooling air to avoid high water temperature

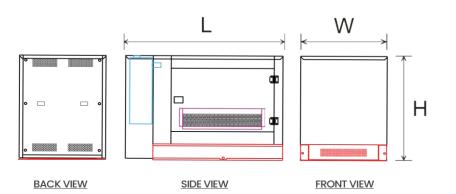
Transportability

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	1850x960x1200	765	23	85	65
Open	1270x520x1430	475	13.5	50	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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