

GFE165PLC (Canopied)



Engine	Alternator	Model	
Perkins	Leroy Somer	GFE165PLC	
1106A-70TAG2	TAL-A44-J	(Canopied)	

			Power factor	Emissions
50Hz	1500rpm	3-Phase	Factor $\Phi = 0.8$	N/A

Ratings	Prime	Power	Standby	y Power	Rated current	Fuel consumption
Voltage	(PRP)		(ESP)		Amps	@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	120	150	132	165	217	33.4

400	120	130	132	103	217	33.4
Ratings	All three phase ge	nerator sets are rat	ted at 0.8 power fa	actor.		
	All single-phase ge	nerator sets are ra	ted at unity or 1.0	power factor.		
Prime	This rating is appli	cable for supplying	continuous electri	ical power at var	iable load.	
output	There is no limitat	ion to the annual h	ours of operation	and this model of	can supply	
	10% overload pow	er for 1 hour in 12	2 hours.			
Standby output	This rating is applicutility power failur	, •	• • •		in the event of a	

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

EnginePerkins 1106A-70TAG2

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		6 cyl / vertical in-line	
	Displacement	Litres	7.01	
	Aspiration		Turbocharged aftercooled	
	Combustion system		Direct injection	
	Governor type		Mechanical	
	Bore / stroke	mm	105×135 (4.13 × 5.31 in)	
	Compression ratio		16:1	
	Engine power (net)	kWm	Prime: 131 Standby: 144.1	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	36.1	
system	Fuel consumption at 100% Prime Power	Litres/hour	33.4	
	Fuel consumption at 75% Prime Power	Litres/hour	24.7	
	Fuel consumption at 50% Prime Power	Litres/hour	16.4	
	Standard fuel tank capacity	Litres	530	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Mechanical fuel injection system		YES	
fuel system	Fuel filter		YES	
•				
Oil	Total oil system capacity	Litres	16.5	
system	Maximum sump capacity	Litres	N/A	
•	Lubricating oil sump		YES	
	Oil filters		YES	
Cooling	Total system capacity			
system	- With radiator	Litres	21	
,	- 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		1	
	Engine water heater		+	
options				

Alternator

Leroy Somer TAL-A44-J

		Units	
General	Manufacturer / brand		Leroy Somer
data	Model		TAL-A44-J
	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

GFE Controller Summary

	Available: Optional: Optional: Optional:					
Controller model / Deepsea DSE	Available: DSE4520	Optional: DSE6110/20	Optional: DSE7310/20	Optional: DSE8610/2		
Controller photos		*# 9	***************************************	### ### ### ### ### ### #### #########		
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		
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	•	•		
-	0	0	•	•		
Service indicate			-	-		
			•	•		
Service indicate Fault history Gen-gen synchronising	• ×	• ×	• ×	•		

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 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



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

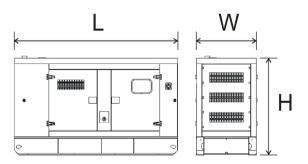
Transportability

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
	$(L \times W \times H)$ mm	kg	Hours	Litres	dB(A) at 7m
Canopied	3600×1130×2080	2600	TBC	530	TBC
Open	2670×855×1530	1580	TBC	250	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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