



Engine	Alternator	Model	Power factor	Emissions
Doosan P126TI-II	Leroy Somer	GFE275DLC (Canopied)	Factor $\Phi = 0.8$	N/A
50Hz	1500rpm	3-Phase		

Ratings	Prime Power (PRP)	Standby Power (ESP)	Rated current (A)	Fuel consumption @100% load (L/h)
Voltage (V)	kWe      kVA	kWe      kVA	Amps (A)	
400/230	200      250	220      275		51,9

**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

P126TI-II

		Units	
<b>General performance</b>	Frequency	Hz	50
	Type		4-Stroke, Diesel Fuel
	Engine speed	r/min	1500
	Number of cylinders / arrangement		6 cyl / In-line
	Displacement	Litres	11.1
	Aspiration		Turbocharge-intercooler
	Combustion system		Direct injection
	Governor type		Electronic
	Bore / stroke	mm	155 x 123
	Compression ratio		17:01
	Engine power (gross)	kW	Standby: 294
	Cooling system		Water cooled
Rotation		Anti-clockwise viewed on flywheel	
<b>Fuel system</b>	Fuel consumption at 110% Prime Power	Litres/Hour	56.8
	Fuel consumption at 100% Prime Power	Litres/Hour	51.9
	Fuel consumption at 75% Prime Power	Litres/Hour	38.7
	Fuel consumption at 50% Prime Power	Litres/Hour	25.7
	Standard fuel tank capacity	Litres	510
<b>Air system</b>	Air inlet		Mounted air filter
	Air filter type		Dry
<b>Fuel and fuel system</b>	Rotary type pump		YES
	Ecoplus fuel filter		YES
<b>Oil system</b>	Total oil system capacity	Litres	23
	Maximum sump capacity	Litres	N/A
	Wet sump with filler and dipstick		YES
	Full-flow spin-on oil filters		YES
<b>Cooling system</b>	Total system capacity		
	- With radiator	Litres	65
	- Without radiator	Litres	N/A
	Thermostat operation range	°C	up to 50°C
	Maximum top tank temperature	°C	N/A
<b>Electric system</b>	Electrical system voltage	VDC	24
	Battery		Maintenance free
<b>Available options</b>	Battery charger		<i>Included</i>
	Engine water heater		<i>Included</i>
	Battery isolator switch		<i>Optional</i>

# Alternator

Leroy Somer

		Units	
<b>General data</b>	Manufacturer / brand		Leroy Somer
	Model		TBC
	Coupling / number of bearings		Flexible Disc / Single Bearing
	Phase / Poles		3-Phase / 4-Pole
	Power factor		Cos $\Phi$ = 0.8
	AVR Regulation		Yes
	Voltage Regulation		±1 %
	Insulation class		H-F
	Drip proof		IP21-23
	Excitation		AVR, Brushless
	Altitude	m	≤1000
	Overspeed	min -1	2250

# GFE Controller Summary

Controller model / LCD Display Type	Optional: DSE4520	Optional: DSE6110	Included DSE7320	Optional: DSE8620
<b>Standard supply</b>	○	○	●	○
<b>Viewable parameters</b>				
Phase voltage	×	3	3	3
Current	Instrumentation	●	●	●
Frequency	●	●	●	●
Active power	○	●	●	●
Reactive power	○	●	●	●
Apparent power	×	●	●	●
Power factor	○	●	●	●
<b>Generator protection</b>				
Abnormal voltage	●	●	●	●
Overcurrent warning	○	●	●	●
Overcurrent protection	●	●	●	●
Over frequency protection	●	●	●	●
<b>Engine figure</b>				
Oil pressure	●	●	●	●
Coolant temperature	●	●	●	●
Fuel meter / fuel sensor	●/○	●/○	●/○	●/○
Speed	●	●	●	●
Battery voltage	●	●	●	●
Elapsed time	●	●	●	●
<b>Engine protection</b>				
Low oil pressure warning	×	●	●	●
Low oil pressure protection	●	●	●	●
High temperature warning	○	●	●	●
High temperature protection	●	●	●	●
Overspeed warning	×	●	●	●
Overspeed protection	○	●	●	●
Alternator charger	●	●	●	●
<b>Functions</b>				
Remote start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable input	●	●	●	●
Programmable output	●	●	●	●

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

# GFE Enclosure / Canopy

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

Sound-attenuated or open option

## Features

### Extremely rugged and highly corrosion resistant construction

Compatible with 2000/14/EC directives, certified noise emission level

2 or 4 points for transport according to cabin size

Hidden exhaust inside the canopy

Emergency stop button located on the canopy

Improved air suction channel to ensure homogenous cooling in the canopy

Lid on cab for radiator and antifreeze top up

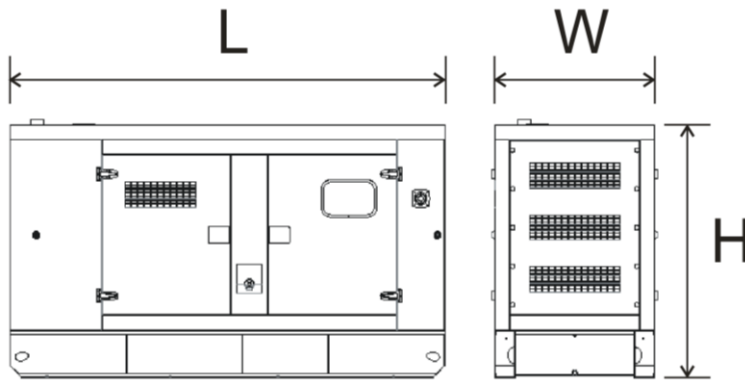
Paint system protecting against corrosion and rust

Improved sound insulation performance

Demounted parts for easier transportation and maintenance

## Overall dimensions, weight and noise

Frame type	Dimensions ( W x L x H ) mm	Weight kg	Base tank @100% load		Noise level dB(A) at 7m at 75% Load
			Hours	Litres	
Canopied	1335x3950x2050	3040	TBC	510	71
Open	1300x 3000x1800	2155	TBC	510	N/A



# GFE Automatic Transfer Switch

A.T.S - 4 Poles

GFE Power Products 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), 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: From One (1) to Two (2) years. Please see GFE Warranty Terms and Conditions of sale.

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