



GPLS-46-I

Powered by Perkins

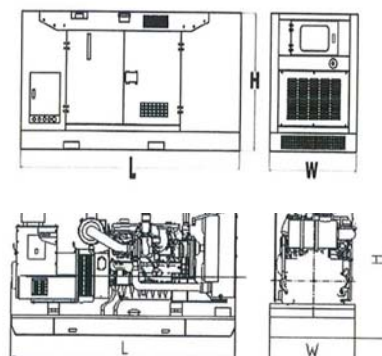
Model	Frequency/RPM	Standby Power	Prime Power
GPLS-46-I	60Hz/1800RPM	46KW	42KW
		57.5KVA	52.5KVA

* Voltages: 127/220V

- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
 (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
 (3) Operation at Altitude $\leq 1000\text{m}$, Ambient temperature $\leq 40^{\circ}\text{C}$. If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

General Characteristics	
Model	GPLS-46-I
Engine	Perkins 1103A-33TG1
Alternator	Leroy Somer TAL-A42-G
Speed Control Type	Electrical
Phase	3
System Voltage	12
Frequency	60Hz
Engine Sped(RPM)	1800
Controller Model	AMF InteliLite 9 or DEEPSEA DSE6020

Dimensions		
DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	1880mm	2250mm
Width (W)	750mm	1080mm
Height (H)	1480mm	1725mm
Net Weigh (KG)	930KG	1350KG



Engine Specification

Brand		Perkins
Model		1103A-33TG1
No. of Cylinders and Cycle		3L, 4 Stroke
Compression Ratio		17.25:1
Displacement (L)		3,3
Bore x Stroke (mm)		105 x 127
Piston Speed (m/s)		5
Air Intake Flow (L/s)		48,33
Exhaust Flow (L/s)		116,67
Net Engine Weight (kg)		420
Starting System		Electronic
Engine Coolant Flow (L/s)		2,09
Base Output Power (kW)		42,2
Fuel Consumption (L/h)	110% load	12
	100% load	10,7
	75% load	8,2
	50% load	5,7

Cooling System	Thermostat adjusting temperature (°C)	82-93
	Minimum Pressure of Radiator Cap (kPA)	90
	Coolant capacity-engine only(L)	3,6
Lubricating System	Low idle (kPA)	276
	Rated speed (kPA)	470
	Max. oil temperature permitted in oil pan (°C)	125
	Lubrication system Min. capacity (L)	6,2
Exhaust System	Max. Back Pressure (kPA)	10
Electrical System	Starter (V)	12
	Battery charging system (A)	65

Alternator Specification

Poles	No.	4
Connection type (standard)		VOLTAGE SERIES STAR
Insulation		Class" H"
Enclosure (according IEC-34-5)		IP23
Exciter system		P.M.G.
Voltage regulator		A.V.R. (Electronic)
Bracket type		Single bearing
Coupling system		Flexible disc
Coating type		Standard (Vacuum impregnation)

*Alternator meets BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2 and AS1359.

Options

Engine

- Jacket Water Preheater
- Oil Preheater

Generator Sets

- Tools with the machine

Fuel System

- Low fuel level alarm
- Automatic fuel feeding system
- Fuel T-valves

Control Panel

- Remote control panel
- ATS
- Remote controller
- Synchronizing controller

Alternator

- Winding temperature measuring instrument
- Alternator Preheater
- Anti-damp and anti-corrosion treatment
- Anti-condensation heater

Canopy

- Rental type canopy
- Trailer

Exhaust System

- Protection board from heat

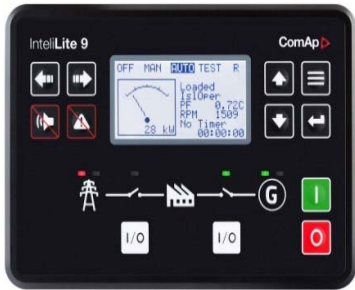
Cooling System

- Front heat protection
- Coolant (-30°C)

Lubricating System

- With machine oil

Standard Controller (ComAp AMF20 or DEEPSEA DSE6020)

Control	Auto/Start/Stop Control		AMF IntelliLite 9
	Emergency Stop Pushbutton/ Alarm		
	Engine Cool Down Timer		
	Warm - up Timer		
	Load Switching Timer		
	Engine Cycle Crank		
Indications	Operating Hours		DSE6020
	3 Phase Generator Voltage Sensing & Monitoring		
	Current Protection & Monitoring		
	Power Measurement (kW, kVA, kVA _r , kWh, kVAh, pf)		
	Frequency Monitoring (Hz)		
Warning & Shutdown Alarms	Oil Pressure/Coolant Temperature/Fuel Level Monitoring		
	Battery Voltage Monitoring (DC)		
	Alarm (Acknowledge)		
	Generator Over/Under Voltage & Frequency		
	Crank Disconnect (Failure to Start)		
	Under/Over Speed		
	Over Current		
Features	Low oil pressure		
	High Water Temperature		
	Low Fuel Level		
	Low Water Level		
	IP 65 (if ordered with gasket)		
	Basic Scheduler		
	8 - 35V DC Supply		
	Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)		
	Event Log (5 shutdowns)		