TECHNIQUE INFORMATION
DIESEL GENERATORS
GSG ALFA DIESEL ENGINE POWERED

GENSTAR
the energy

ALFA				GSG - P450	
Standby Power	kVA	450	**Engine Speed**	**Power Factor**	
	kW	360	**1500 rpm**	**0,8 Cos Phi**	
Prime Power	kVA	400	**Voltage**		
	KW	320	**400 / 230 V**		

ENGINE

				FUEL CONSUMPTION (lt/h)	
Brand		PERKINS	%110 ESP		90
Power PRP	kW	349	%100 PRP		81
Model		2206A-E13TAG3	%75 PRP		62
N° of Cylinders / Valves		6/24	%50 PRP		42
Engine Type		4			
Displacement	lt	12.5			
Aspiration		Turbocharged - Air to air cooled			
Bore x Stroke	mm	130x157			
Compression Ratio		16.3:1			
Air Filter		Heavy Duty			
Cooling Method		Water Cooled (water + %50 antifreeze)			
Total Coolant Capacity	lt	51.4			
Governor Type		ECM (Engine Control Modul)			
Electrical System		24VDC			
Battery Charger Current		70A			
Oil Capacity	lt	40			
Exhaust Gas Flow PRP	[m3 / min]	64,6			
Exhaust Gas Temp.	[°C]	630			
Air Flow PRP	[m3/min]	24.3			
Cooling Air Flow PRP	[m3/min]	654			
Starter Power	(kW)	7,8 kW			
Standard Battery Voltage	[V]	24VDC			
Standard Battery Capacity		2x105Ah			
Standard Battery Type		Maintenance-Free Lead Acid			

(The specific gravity is 0.84 and the fuel is considered to be BS2869, Class A2.)
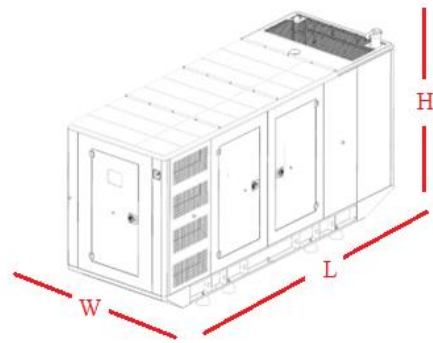
ALTERNATOR

Brand		LINZ
Model		PRO28L G/4
Voltage		400 /230 VAC
Number of Phase		3
Power Factor		0.8
Number of Poles		4
Connection Type		Star
Bearing		Single
Insulation Class		H
Protection Class		IP 23
Winding		5/6
Control System		Self Excited
Voltage Regulator		Electronic AVR
Efficiency 4/4 400VAC 50Hz	(cosφ=1)	95.2
Voltage Regulation		±%1
THD		<%3.3
Appearent Power [kVA] Prime 400VAC 50Hz 125ºC/40ºC		400
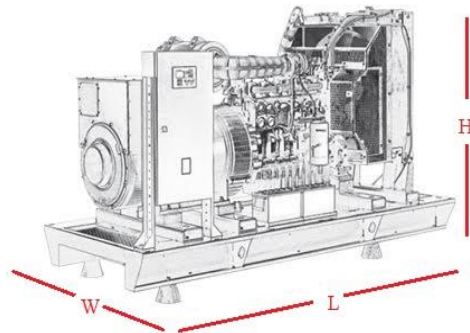
OPEN VERSION					CANOPY VERSION			
Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)	Fuel Tank Capacity (lt.)	Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)
1650	3750	1942	2915	1130	1710	4710	2560	3767

GENSTAR
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* Diesel and gas genset support

* 400Hz operaton support

* Downloadable languages

* Harmonic analysis of V & I

* Weekly operaton schedule

* Dual mutual standby wth equal agng of gensets

* Overload IDMT protecton

* Current unbalance protecton

* Fuel filling & fuel theft alarms

* Battery back-up real tme clock

* Idle speed control

* Contactor & MCB drve

* Fuel filling counters

* Fuel consumpton counter

* Automatic GSM geo-locaton

* Reverse power protecton

* Free configuraton program

* Mobile genset support

* 3 level configuraton password

* Ip65 ratng wth optonal gasket

* Full remote communications support (AirGate 2.0, WSV)

* Internet access using Ethernet / 4G, Modbus TCP/RTU SNMP v1/v2c

* Active SMS and emails

* Detailed history log with up to 350 records

* Dual Mutual Standby application support

* Remote display

* User setpoints and protections

* 5 languages in the controller & Translator functionality

* User Access Management

* Cyber security improvement

* Alternative configurations

* Multi-purpose schedulers

* Modbus register mapping possibility

* Stand-by and prime-power application in one unit

* Backlit symbols

* 8 binary outputs, 8 + 1 binary inputs, 4 analog inputs (U/I/R)

* +5 V output reference for analog inputs

* 2 high-current E-Stop binary outputs

* USB Host

* Inbuild RS485

* 2 slots for extension plug-in modules (Modbus, Internet,
* SMS, imputs/outputs)

* Extension CAN modules

* ECU support (Tier 4 Final, Stage V)

* RTC with battery back-up (full calendar)

* Power over USB for controller configuration

* Zero power mode

* True RMS measurement

* In-built PLC, complemented with a PLC monitoring tool in InteliConfig

* Load shedding, dummy load management
User buttons

* User buttons

* Geofencing based on GPS position

* Available also in low temperature version (Order code: