TECHNIQUE INFORMATION
DIESEL GENERATORS
GSG STAR DIESEL ENGINE POWERED
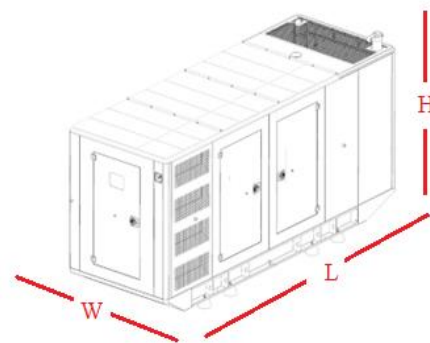
GENSTAR the energy

STAR				GSG - S90	
Standby Power	kVA	90,8	**Engine Speed**	**Power Factor**	
	kW	72,6	1500 rpm	0,8 Cos Phi	
Prime Power	kVA	85	**Voltage**		
	KW	68	400 / 230 V		

ENGINE

Brand		SDEC
Power PRP	kW	78
Model		SC4H115D2
N° of Cylinders / Valves		4/16
Engine Type		4 Stroke
Displacement	lt	4,3
Aspiration		Turbocharged
Bore x Stroke	mm	105x124
Compression Ratio		17,3:1
Air Filter		Replaceable Element
Cooling Method		Water Cooled (water + %50 antifreeze)
Total Coolant Capacity	lt	19,3
Governor Type		Electronic
Electrical System		24VDC
Battery Charger Current		55A
Oil Capacity	lt	13
Exhaust Gas Flow PRP	[m3/min]	14,1
Exhaust Gas Temp.	[°C]	600
Air Flow PRP	[m3/min]	6,2
Cooling Air Flow PRP	[m3/min]	141
Starter Power	(kW)	4,5 kW
Standard Battery Voltage	[V]	24VDC
Standard Battery Capacity		2X60Ah
Standard Battery Type		Maintenance-Free Lead Acid

FUEL CONSUMPTION (lt/h)

%110 ESP	22,1
%100 PRP	20,2
%75 PRP	15,2
%50 PRP	10,3

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

ALTERNATOR

Brand		NEKRA
Model		ARK 224G
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		2/3
Control System		Self Excited
Voltage Regulator		Electronic AVR
Efficiency 4/4 400VAC 50Hz	(cosφ=1)	92,5
Voltage Regulation		+%1
THD		<%5
Appearent Power [kVA] Prime 400VAC 50Hz 125ºC/40ºC		85
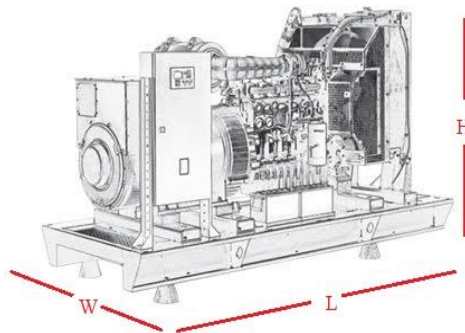
OPEN VERSION					CANOPY VERSION			
Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)	Fuel Tank Capacity (lt.)	Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)
1100	2150	1320	1131	174	1100	2880	1720	1502

* 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: