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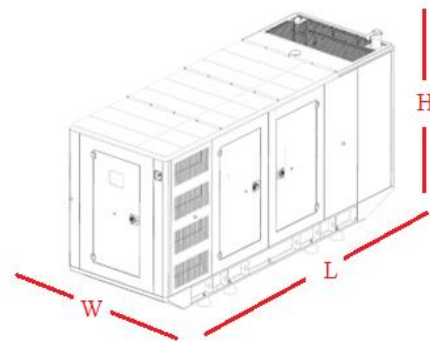
GENSTAR
the energy

STAR			GSG - S130	
Standby Power	kVA	130	**Engine Speed**	**Power Factor**
	kW	104	**1500 rpm**	**0,8 Cos Phi**
Prime Power	kVA	120	**Voltage**	
	KW	96	**400 / 230 V**	

ENGINE

Brand		SDEC
Power PRP	kW	105
Model		SC4H160D2
N° of Cylinders / Valves		4/16
Engine Type		4 Stroke
Displacement	lt	4,3
Aspiration		Turbocharged - Intercooled
Bore x Stroke	mm	105x124
Compression Ratio		16:1
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]	16,3
Exhaust Gas Temp.	[°C]	600
Air Flow PRP	[m3/min]	7,39
Cooling Air Flow PRP	[m3/min]	185,4
Starter Power	(kW)	4,5
Standard Battery Voltage	[V]	24VDC
Standard Battery Capacity		2X60Ah
Standard Battery Type		Maintenance-Free Lead Acid

FUEL CONSUMPTION (lt/h)

%110 ESP	27,7
%100 PRP	25
%75 PRP	16,7
%50 PRP	12,8

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

ALTERNATOR

Brand	NEKRA
Model	ARK 274D
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)	92,6
Voltage Regulation	+%1
THD	<%5
Appearent Power [kVA] Prime 400VAC 50Hz 125ºC/40ºC	120
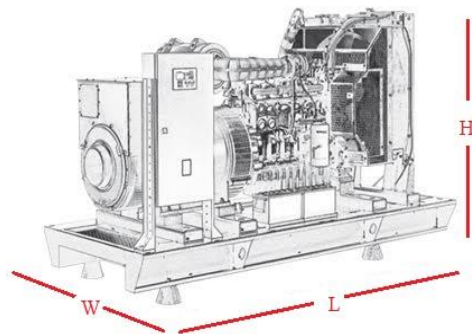
OPEN VERSION					CANOPY VERSION			
Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)	Fuel Tank Capacity (lt.)	Width(mm)	Length(mm)	Height(mm)	Dry Weight (kg)
1100	2150	1370	1289	174	1100	2880	1720	1660
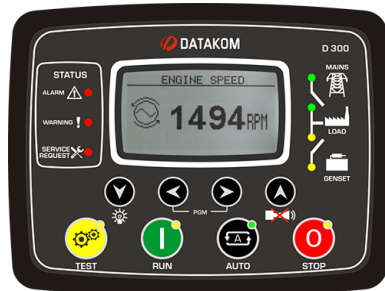
* Diesel and gas genset support
* 400Hz operaton support
* Downloadable languages
* Harmonic analysis of V & I
* Weekly operaton schedule
* Dual mutual standby wth equal agng of gensets
* Overload IDMT protecton
* Current unbalance protecton
* Fuel filling & fuel theft alarms
* Battery back-up real tme 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
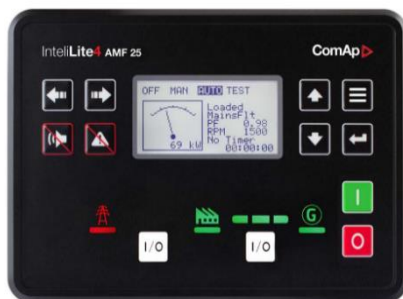
* Full remote communications support (AirGate 2.0, WSV)
* Internet access using Ethernet / 4G, Modbus TCP/RTU
SNMP v1/v2c
* Active SMS and emails
* Detailed history log with up to 350 records

* 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: