

**TECHNIQUE INFORMATION**  
**DIESEL GENERATORS**  
**GSG ALFA DIESEL ENGINE POWERED**



ALFA			GSG - P147	
<b>Standby Power</b>	kVA	<b>147</b>	<b>Engine Speed</b>	<b>Power Factor</b>
	kW	<b>117,6</b>	1500 rpm	0,8 Cos Phi
<b>Prime Power</b>	kVA	<b>130</b>	<b>Voltage</b>	
	KW	<b>104</b>	400 / 230 V	

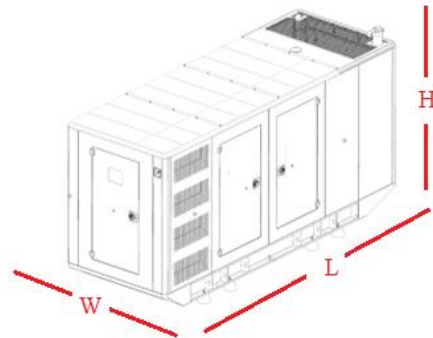
**ENGINE**

Brand	PERKINS
Power PRP	kW 118.3
Model	1106A-70TG1
N° of Cylinders / Valves	6/12
Engine Type	4
Displacement	lt 7.01
Aspiration	Turbocharged
Bore x Stroke	mm 105x135
Compression Ratio	18.2:1
Air Filter	Heavy Duty
Cooling Method	Water Cooled (water + %50 antifreeze)
Total Coolant Capacity	lt 21
Governor Type	Mechanical
Electrical System	12VDC
Battery Charger Current	65A
Oil Capacity	lt 18
Exhaust Gas Flow PRP	[m3 / min] 20,75
Exhaust Gas Temp.	[°C] 576
Air Flow PRP	[m3/min] 7.64
Cooling Air Flow PRP	[m3/min] 182
Starter Power	(kW) 4,2 kW
Standard Battery Voltage	[V] 12VDC
Standard Battery Capacity	1x105Ah
Standard Battery Type	Maintenance-Free Lead Acid

**FUEL CONSUMPTION (lt/h)**

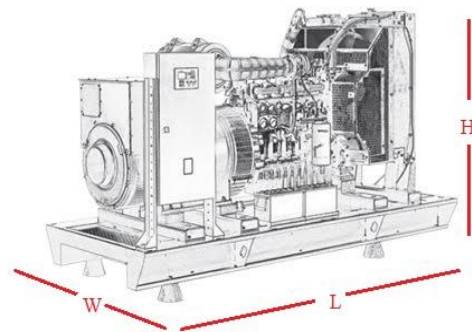
%110 ESP	33,8
%100 PRP	30,3
%75 PRP	22,7
%50 PRP	15,9

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



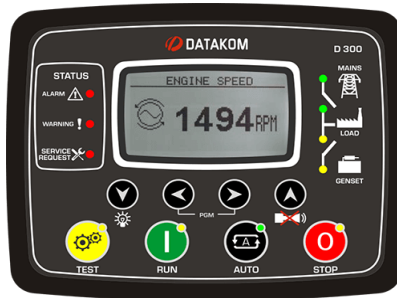
**ALTERNATOR**

Brand	LINZ
Model	PRO22M E/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	2/3
Control System	Self Excited
Voltage Regulator	Electronic AVR
Efficiency 4/4 400VAC 50Hz	(cosφ=1) 94
Voltage Regulation	±%1
THD	<%3
Apparent Power [kVA] Prime 400VAC 50Hz	130
	125°C/40°C



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	2650	1480	1497	294	1160	3470	1950	1870

**TECHNIQUE INFORMATION**  
**DIESEL GENERATORS**  
**GSG ALFA DIESEL ENGINE POWERED**



- \* Diesel and gas genset support
- \* 400Hz operation support
- \* Downloadable languages
- \* Harmonic analysis of V & I
- \* Weekly operation schedule
- \* Dual mutual standby with equal aging of gensets
- \* Overload IDMT protection
- \* Current unbalance protection
- \* Fuel filling & fuel theft alarms
- \* Battery back-up real time clock

- \* Idle speed control
- \* Contactor & MCB drive
- \* Fuel filling counters
- \* Fuel consumption counter
- \* Automatic GSM geo-location
- \* Reverse power protection
- \* Free configuration program
- \* Mobile genset support
- \* 3 level configuration password
- \* Ip65 rating with optional 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
- \* Inbuilt RS485
- \* 2 slots for extension plug-in modules (Modbus, Internet, SMS, inputs/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 IntelliConfig
- \* Load shedding, dummy load management
- User buttons
  - \* User buttons
  - \* Geofencing based on GPS position
  - \* Available also in low temperature version (Order code: