



**ENERGY
FOR LIFE**



SB-110

DIESEL GENERATING SET 110 KVA

		Standby	Prime
Power	kVa	110	100
Power	kW	88	80
Rated speed	Rpm	1500	
Voltage	V	400/230	
Power factor	Cos Phi	0,8	

Continous power

Continuous working power under constant load. The average load value can be 100%. It cannot be overloaded.

Standby Power

Working power in limited time under variable load. With an average load of 70%, it can operate for a total of 200 hours a year. It is used as backup power in mains power outages. Cannot be overloaded.

Prime Power

Continuous working power under variable load. Average load value should be 70%. Every 12 hours

10% can be overloaded.



Engine

Brand	Baudouin	
Model	4M11G120/5	
Frequency	Hz	50
Standby Power	kW	108
Prime Power	kW	98
Displacement	lt.	4.5
Number of cylinders	4	
Rated Speed	rpm	1500
Aspiration	Turbocharged-Intercooler	
Cooling Method	Water cooled	
Type	Direct injection	
Bore x Stroke	mmxmm	105 X 130
Governor type	Electronic	
Fuel Cons.	%100 lt.	23.2
Fuel Cons.	%50 lt.	11.9
Oil Capacity	lt.	11
Coolant Capacity	lt.	13.3
Voltage	V	12V/24V
Fuel Capacity	Lt.	275

Alternator

Voltage	V	230/400
Frequency	HZ	50
Automatic Voltage Regulation	±%	% 4, engine regulator 1,0 ±%
Standby	kVA	110
Prime	kVA	100
Power Factor	Cosφ	0,8
Insulation System	IP21 / H	
Warning system	Self excited	

DIMENSIONS

Silent type

W x L x H	mm	1000 x 2600 x 1535
Weight	kg	1650
Tank capacity	lt	275

Open type

W x L x H	mm	1100 x 2600 x 1576
Weight	kg	1350
Tank capacity	lt	275

Standard Features

Water cooled diesel engine
Radiator and mechanical fan
Protective cage that prevents touching rotating and hot parts
Electric starter and charge alternator
Battery, cables and stand
Steel chassis and anti-vibration wedges

Electronic battery charger
Operating and installation manual
Alternator with single bearing and H insulation class
Industrial capacity muffler and flexible steel compensator
Flexible fuel connection hoses
Engine water heater
Fuel tank integrated into the chassis

CONTROL SYSTEM

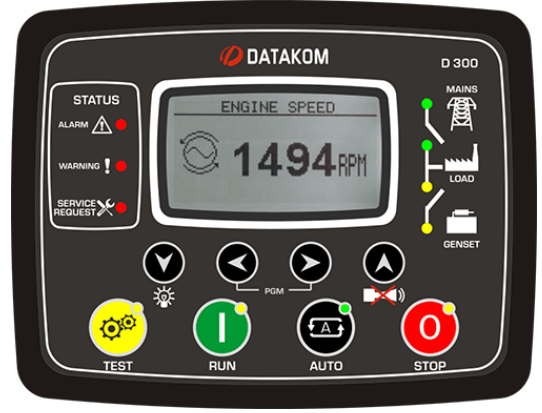
DATAKOM D-300

The D-300 is a cost effective, modern technology genset controller ready for internet monitoring. Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.

Software features are complete with easy firmware upgrade through USB port.

The Windows based PC software allows monitoring and programming through USB, RS-232 and GPRS.

The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.



FUNCTIONS	COMMUNICATION	FEATURES	
AMF unit	4-band GPRS modem (optional)	Diesel and gas genset support 400Hz operation support	Dual mutual standby with equal aging of gensets
ATS unit	USB Device	400 event logs, full snapshot	Manual "speed fine adjust" on selected ECUs
Remote start controller	RS-232 (2400-57600baud)	All parameters front panel editable	Automatic fuel pump control
Manual start controller	J1939-CANBUS	3 level configuration password	Disable protections feature
Engine controller	Geo-locating through GSM	128x64 graphical LCD display	Excess power protection
Remote display panel	Internet Central Monitoring	Downloadable languages	Reverse power protection
	Free PC software: Rainbow Plus	Waveform display of V & I	Overload IDMT protection
	Modbus RTU	Harmonic analysis of V & I	Load shedding, dummy load
	GPS support (RS-232)	16Amp MCB & GCB outputs	Multiple load management
		8 configurable digital inputs	Current unbalance protection
		6 configurable digital outputs	Voltage unbalance protection
		3 configurable analog inputs	Fuel filling & fuel theft alarms
		Both CANBUS-J1939 & MPU	Battery back-up real time clock
		3 configurable service alarms	Idle speed control
		Multiple automatic exerciser	Battery charge run enabled
		Weekly operation schedule	Combat mode support