

**DIESEL GENERATOR 485 KVA****50 Hz, 230/400V**

## TECHNICAL SPECIFICATIONS



		Standby	Prime
Power	kVa	485	440
Power	kW	388	353
Rated speed	rpm	1500	
Voltage	V	400/230	
Power factor	Cos Phi	0,8	
Open Type (LxWxH)	mm	1600 x 3300 x 1835	
Open Type(Weight)	kg	3530	
Silent Type (LxWxH)	mm	1600 x 4150 x 2550	
Silent Type(Weight)	kg	4200	

**Continuous 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.

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ENGINE			
Brand	Doosan		
Model	P158LE		
Frequency	Hz	50	
Standby Power	kW	398	
Prime Power	kW	362	
Displacement	lt	14.318	
Rated Speed	rpm	1500	
Bore x Stroke	mm x mm	128 x 142	
Aspiration	Turbocharged		
Cooling Method	Water Cooled		
Type	Direct Injection		
Compression Ratio	15:1		
Number of Cylinders	8 V Type		
Governor Type	Electronic		
Oil Capacity	lt	21	
Coolant Capacity	lt	80	
Fuel Tank	lt	790	
Fuel Consumption	%100	lt	89.3
	%75	lt	64
	%50	lt	43.9

ALTERNATOR		
Power Factor	0.8	
Rated Power	kW/kVa	388/485
Frequency	Hz	50
Voltage	V	400/230
Connection	3P 4W / Y	
Protection Class	IP21	
Insulation Class	H	
Voltage Regulation	±1.0%	
AVR	AS440	
Excitation System	Self Excited	

## STANDARD FEATURES

- |   |  |
|---|--|
| Water cooled diesel engine                                    | Steel chassis and anti-vibration wedges                    |
| Radiator and mechanical fan                                   | Electronic battery charger                                 |
| Protective cage that prevents touching rotating and hot parts | Operating and installation manual                          |
| Electric starter and charge alternator                        | Alternator with single bearing and H insulation class      |
| Battery, cables and stand                                     | Industrial capacity muffler and flexible steel compensator |
| Flexible fuel connection hoses                                | Engine water heater  |

SKATPOWER reserves the right to make changes in model, specification, color, equipment and accessories without prior notice. N/A: These dimensions and weights may change depending upon the characteristics of the project

SKATPOWER GENERATOR.

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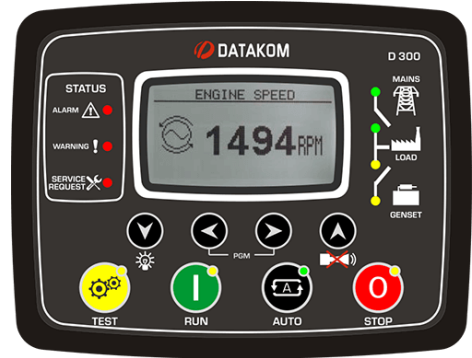
## CONTROL SYSTEM

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