

DIESEL GENERATOR 100 KVA**50 Hz, 230/400V**

TECHNICAL SPECIFICATIONS



		Standby	Prime
Power	kVa	100	90.9
Power	kW	80	72.7
Rated speed	rpm	1500	
Voltage	V	400/230	
Power factor	Cos Phi	0,8	
Open Type (LxWxH)	mm	1050 x 2350 x 1475	
Open Type(Weight)	kg	1060	
Silent Type (LxWxH)	mm	1050 x 2700 x 1875	
Silent Type(Weight)	kg	1290	

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	RICARDO		
Model	R4105IZLD		
Frequency	Hz	50	
Standby Power	kW	83	
Prime Power	kW	75	
Displacement	lt	4.33	
Rated Speed	rpm	1500	
Bore x Stroke	mm x mm	105 x 130	
Aspiration	Turbocharged		
Cooling Method	Water Cooled		
Type	Direct Injection		
Compression Ratio	17:1		
Number of Cylinders	4		
Governor Type	Mechanic/Electronic		
Oil Capacity	lt	13	
Coolant Capacity	lt	18	
Fuel Tank	lt	175	
Fuel Consumption	%100	lt	20.2
	%75	lt	15.3
	%50	lt	10

ALTERNATOR		
Power Factor	0.8	
Rated Power	kW/kVa	80/100
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
- Radiator and mechanical fan
- Protective cage that prevents touching rotating and hot parts
- Electric starter and charge alternator
- Battery, cables and stand
- Flexible fuel connection hoses
- 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
- 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	