



<mark>energy</mark> For life

SR-90

Standby Prime 90 Power kVa 82 kW 72 66 Power **Rated speed** Rpm 1500 Voltage v 400/230 Cos Phi 0,8 **Power factor**

DIESEL GENERATING SET 90 KVA

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.



SARO



Engine

BrandRicardoModel4105iZDFrequencyHz50Standby PowerkW72.6Prime PowerkW66DisplacementIt.4,33Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100It.16.69Fuel Cons.%50It.3.42Oil CapacityIt.20VoltageV24VFuel CapacityLt.120				
FrequencyHz50Standby PowerkW72.6Prime PowerkW66Displacementlt.4,33Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100lt.16.69Fuel Cons.%50lt.8.42Oil Capacitylt.20VoltageV24V	Brand			Ricardo
Standby PowerkW72.6Prime PowerkW66Displacementlt.4,33Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100lt.16.69Fuel Cons.%50lt.8.42Oil Capacitylt.13Coolant Capacitylt.20VoltageV24V	Model			4105IZD
Prime PowerkW66DisplacementIt.4,33Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100It.Fuel Cons.%50It.Oil CapacityIt.13Coolant CapacityIt.20VoltageV24V	Frequency		Hz	50
Displacement//t.4,33Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100//t.16.69Fuel Cons.%50//t.13Coolant Capacity//t.20VoltageV24V	Standby Power		kW	72.6
Number of cylinders4Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100/t.16.69Fuel Cons.%50/t.13Oil Capacity/t.13Coolant Capacity/t.20VoltageV24V	Prime Power		kW	66
Rated Speedrpm1500AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100lt.Fuel Cons.%50lt.Oil Capacitylt.13Coolant Capacitylt.20VoltageV24V	Displacement		lt.	4,33
AspirationTurbochargedCooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100/t.16.69Fuel Cons.%50/t.8.42Oil Capacity/t.13Coolant CapacityVoltageV24V	Number of cylinde	rs		4
Cooling MethodWater cooledTypeDirect injectionBore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100It.16.69Fuel Cons.%50It.8.42Oil CapacityIt.13Coolant CapacityVoltageV24V	Rated Speed		rpm	1500
Type Direct injection Bore x Stroke mmxmm 105 X 125 Governor type Mechanic Fuel Cons. %100 /t. Fuel Cons. %50 /t. Oil Capacity /t. 13 Coolant Capacity /t. 20 Voltage V 24V	Aspiration			Turbocharged
Bore x Strokemmxmm105 X 125Governor typeMechanicFuel Cons.%100lt.16.69Fuel Cons.%50lt.8.42Oil Capacitylt.13Coolant Capacitylt.20VoltageV24V	Cooling Method			Water cooled
Governor type Mechanic Fuel Cons. %100 /t. 16.69 Fuel Cons. %50 /t. 8.42 Oil Capacity /t. 13 Coolant Capacity /t. 20 Voltage V 24V	Туре			Direct injection
Fuel Cons. %100 /t. 16.69 Fuel Cons. %50 /t. 8.42 Oil Capacity /t. 13 Coolant Capacity /t. 20 Voltage V 24V	Bore x Stroke		mmxmm	105 X 125
Fuel Cons. %50 /t. 8.42 Oil Capacity /t. 13 Coolant Capacity /t. 20 Voltage V 24V	Governor type			Mechanic
Oil Capacity It. 13 Coolant Capacity It. 20 Voltage V 24V	Fuel Cons.	%100	lt.	16.69
Coolant Capacity //t. 20 Voltage V 24V	Fuel Cons.	%50	lt.	8.42
Voltage V 24V	Oil Capacity		lt.	13
	Coolant Capacity		lt.	20
Fuel Capacity Lt. 120	Voltage		V	24V
	Fuel Capacity		Lt.	120

Alternator

MODEL		SLG224G
Voltage	V	230/400
Frequency	ΗZ	50
Automatic Voltage	±%	% 4, engine regulator 1,0
Regulation		±%
Standby	kVA	90
Prime	kVA	82
Power Factor	Cosq	0,8
Insulation System		IP22 / H
Warning system		Self excited

DIMENSIONS

Silent type			Open type			
WxLxH	mm	1010 x 2410 x 1560	WxLxH	mm	-	
Weight	kg	1190	Weight	kg	-	
Tank capacity	lt	120	Tank capacity	lt	-	
Standard Features			Electronic battery ch	arger		
Water cooled diesel engine		Operating and installation manual				
Radiator and mechanical fan			Alternator with single	Alternator with single bearing and H insulation class		
Protective cage that prevents touching rotating and hot parts			Industrial capacity m	Industrial capacity muffler and flexible steel compensator		
Electric starter and charge alternator			Flexible fuel connect	Flexible fuel connection hoses		
Battery, cables and stand			Engine water heater	Engine water heater		
Steel chassis and anti-vibration wedges			Fuel tank integrated	Fuel tank integrated into the chassis		

TEKNİK GÜÇ SİSTEMLERİ HIRDAVAT SAN. VE DIŞ TİC. LTD. ŞTİ	www.saro.gen.tr
Arapcamii mah. Tersane cad. No:64/A Karaköy Beyoğlu/ İSTANBUL	info@teknikgucsistemleri.com
Tel: +90 212 235 33 35 Fax: +90 212 235 33 36	



SR-90

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	Diesel and gas genset support	Dual mutual standby with equal aging
	(optional)	400Hz operation support	of gensets
ATS unit	USB Device	400 event logs, full snapshot	Manual "speed fine adjust" on
Remote start controller	RS-232 (2400-57600baud)	All parameters front	selected ECUs
Manual start controller	J1939-CANBUS	panel editable	Automatic fuel pump control
Engine controller	Geo-locating through GSM	3 level configuration password	Disable protections feature
Remote display panel	Internet Central Monitoring	128x64 graphical LCD display	Excess power protection
	Free PC software: Rainbow	Downloadable languages	Reverse power protection
	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

TEKNİK GÜÇ SİSTEMLERİ HIRDAVAT SAN. VE DIŞ TİC. LTD. ŞTİ	www.saro.gen.tr
Arapcamii mah. Tersane cad. No:64/A Karaköy Beyoğlu/ İSTANBUL	info@teknikgucsistemleri.com
Tel: +90 212 235 33 35 Fax: +90 212 235 33 36	