

Features and Benefits

Solé Diesel Gensets offer compactness, extremely low noise and vibration levels coupled with a high level of build quality.

The aluminium canopy provides the best power to weight ratio possible whilst giving the optimum user friendly operating characteristics possible.

The latest COMAP digital panel that incorporates the CAN system. This protocol, simplifies and economizes the communication between terminals.

All Solé products comply with the latest European Emission Levels and additional certification such as CE, RRR, RMRS, EPA Tier II and BV is available on request.

Solé Diesels now has a market presence in over 50 countries worldwide, which gives a comprehensive after sales service when ever and where ever needed.

The close relationship with global engine suppliers such as Deutz and Mitsubishi ensures that extra level of reliability and support.

Models and R	d Ratings						
Model	kW	kVA	Voltage	Amps	Phase	Hz	Engine RPM
20 GS/GSC	20	20	230	87,4	1	50	1500
25 GSA/GSAC	25	25	240	104,6	1	60	1800

Sound Level, Size and Weight

	Sound level (dB) ¹		Dimensions (mm)			Weight (Dry) (kg)
	50 Hz	60 Hz	Lenght	Width	Height	
With Canopy	56	56	1310	610	698	426
Without Canopy			1139	610	662	

¹ Full Load at 7 meters

Ratings: Marine ratings per ISO 3046 (100 kPa barometric pressure, 30% relativity and 25 °C temperature)

² Not Available. Please contact the Sales Dept.

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(Sole Diese) MARINE GENERATOR SET

• Engine

Engine Specifications			
Base	MITSUBISH	I	
Solé Engine Model	MINI-63		
Туре	4 stroke		
Cylinder	4		
Displacement	2.505 cc		
Bore and Stroke	88x103 mm		
Compression ratio	22:1		
Injection	Indirect		
Aspiration type	Naturally as	pirated	
Lube Oil capacity (L)	6,5		
Oil Type	ACEA E5, API CH-4	4/SJ, 15W40	
Coolant capacity (L)	9,5		
Housing	SAE 5		
Flywheel	SAE 8		
	50 Hz	60 Hz	
RPM	1.500	1.800	
Power (Hp / kW)	29,8 / 22,2	36,5 / 27,2	
Coolant flow rate (L/min)	51	63	
Raw water flow (L/min)	37,5	45	
Engine/generator Air cooling requirements (m3/min)	5,1	6,2	

Typical fuel Consumption

	50 Hz	60 Hz
25%	2,5	3,1
50%	3,6	4,4
75%	5,0	6,0
100%	6,6	8,0
Diesel Liters/h at % load		

Alternator

Alternator Details

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Brand	SINCRO
Model	SK160LA1
Regulator type:	AVR BL4 electronic
# of poles	4
Insulation Type*	Н
IP protection*	23
Cos phi	1
Tropicalización	Standard
Excitation system	Brushless
Voltage regulation Accuracy**	± 1%
Standars	EN 60034-1, IEC 60034-1, ISO 8528-3
Frequency Regulation	Synchronous

Engine Electrical 12 Electrical System (V) Starter Motor (kW) 2 50 Alternator (A)

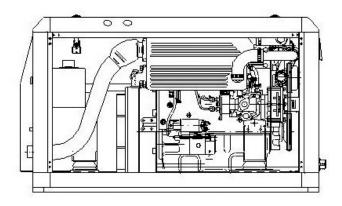
Electrical

ETR

Shutdown system

Stop Solenoid Type

Installation Details	
Ø int. Exhaust Hose (mm)	60
Ø int. Raw Water Hose (mm)	32
Ø int. Fuel supply hose (mm)	8
Ø int. Fuel return hose (mm)	6,5
Max. Fuel lift (m)	1
Max. Raw water lift (m)	2,5
Max. Raw water temperature (°C)	35
Maximun instalation angle (°)***	15
Min. Battery capacity (Ah)	12V / 90 A



* Other protections available - ** With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load. *** In all directions

2/4

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(Sole Diesel) MARINE GENERATOR SET

Control Panel SCO 10

General Description

- · Graphic LCD with light, 128 x 64 pixels display
- · 2 LED indicators
- · Genset Measures (see Display Information)
- · Configuration protected by password
- Running hour indication
- · Multilanguage
- · Genset protections (see Alarm Management)
- · Preheating function
- · D+ pre-excitation Terminal
- · CAN bus information output with SAE J1939 protocol
- · Two multipurpose timers

Power Supply

- Voltage supply
 Consumption
- $12/24V\ DC$ with fuse protection 80/51mA

Operating Conditions

- · Operating temperature
- \cdot Humidity
- -20+70°C 95% Without condensation
- Protection front panel
- Standard Conformity
 Low Voltage Directive
 Electromagnetic
 Compatibility
- EN 61010-1:95 +A1:97 EN 50081-1:94, EN 50081-2:96 EN 50082-1:99, EN 50082-2:97

Function Description

- \cdot OFF Mode
- · MAN Mode (manual start/stop engine)
- · AUT Mode (auto start/stop engine)

Optional Equipment

- · SCO 10 Double panel
 - SCO 10 Double panel allows the same operation and functionality as Main SCO 10. They are connected by RS485 port with a communication wire, available in 12/24/36 m.

IP65

- · Current transformers
 - Current (A), Active Power (kW), Apparent power (kVA) and PF genset measures



Service/cruise kit

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Sole Diesel

- Siphon break kit mandatory if generator is below waterline
 Engine electrical system at 24V
- Service/Cruise Kits: fuel and oil filters, raw water pump
- impeller, alternator belt,...
- · Dry Exhaust system
- · Earth isolated system
- · Exhaust System
- · Keel Cooling conversion for dry and wet exhaust
- · Double walled pipes and alarm kit
- \cdot Low coolant level shut down switch



Solé Diesel Digital Display - SCO 10

- · Dimensions 180 x 120 x 55 mm
- · Weight 450g

Display Information

· Measurement

- L1-L3 Voltage (V), Frequency (Hz), Oil Pressure (bar), Coolant Temperature (°C), Battery Voltage (V), rpm, Active Power* (kW), Apparent Power* (kVA), Current* (A), PF*.
- History log

Alarm Management

· Shut Downs (SD)
High coolant temperature
Low oil pressure
Overspeed
Overload*
Short circuit*
Overcurrent*
Over/Under voltage
Over/Under frequency
Emergency stop
· Warnings (WRN)
High coolant temperature
Low oil pressure
High/Low battery voltage
Maintenance request
· Sensor Fails (FLS)

· Isolated transformers

Voltage transformer unit to separate mains voltage and controller with voltage ratio 1:1.

- · Binary Input/Output extension module
- · IG-IB Internet communication bridge
- For Ethernet/Internet communications
- * The specified function needs the current transformers (Optional Equipment) for showing the information in SCO 10 panel display
 - · Fuel filter/water separator
 - · Gas/Water Separator
 - Fuel Hose
 Exhaust Hose

 - · Raw water hose
 - · Water Filters
 - · Sea cok
 - For other requirements please contact the Sales Dept.

3/4

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