


Shanghai Diesel Engine Co., Ltd.

	Shanghai Diesel Engine Co., Ltd. Add: 2636 Jungong Road, Shanghai		Engine Model SC15G500CA2			
	Performance parameters of marine diesel engine		Ref. No. GL0009	Date 20160301		
Displacement	14.16L	Rated power/rpm	330/1500 kW/r/min			
Bore	135mm	Max power/rpm	363/1545 kW/r/min			
Stroke	165mm	UNA Rated power/rpm	320/1500 kW/r/min			
Cylinders	6	UNA Overload power/rpm	352/1545 kW/r/min			
Fuel system	Mechanical Governor	Aspiration	Turbo & Intercool			
认证: CCS、IMO Tier II						
SC15G500CA2机型外特性及推进特性						
Full throttle			Propeller Demld			
Speed	Power	Torque	Speed	Power	Torque	Fuel Consumption
r/min	kW	N. m	r/min	kW	N. m	g/kW. h
1546	365.0	2256	1546	365.0	2258	220.1
1499	363.0	2310	1500	329.0	2099	213.2
1402	354.0	2414	1453	297.0	1957	208.7
1300	337.0	2475	1364	247.0	1732	205.3
1201	297.0	2367	1191	165.2	1326	214.4
1102	200.0	1733	946	82.6	833	222.6
1000	119.0	1141	698	33.0	452	230.0
901	104.6	1116				
801	89.2	1067				
700	74.7	1017				
Remark: ★Rated Power and Speed conditioned by ISO 8665 (Air pressure of 100kPa, air temp. 25°C, relative humidly 30%, Jacket water-cooler inlet 25°C), , without accessories. ★UNA Power (Unrestricted navigation Area) and Speed conditioned by IACS. (Air pressure of 100kPa, air temp. 45°C, relative humidly 60%, Jacket water-cooler inlet 32°C), Without accessories ★Tolerance on all values is ±5%.						

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Propulsion Marine Engine Data

Engine Model	SC15G500CA2
Application	Marine Propulsion
Application	Turbo & Jacket water
Rated Power/rpm.....kW/r/min	330/1500
Overload Power/rpm	363/1545
UNA Rated Power/rpm	320/1500
UNA Overload Power/rpm	352/1545
Peak Torque@1000r/min	2475/1300
High Speed Governor point	1980
Max Torque Capacity from front of Crank.....	50%
Compression Ratio.....	15.5:1
Piston Speed	9.9
Firing Order	1-5-3-6-2-4
Weight (Dry) Engine Only	1350
Default Droop Value	≤10
Minimum Idle Speed	≤500±25
Fuel system	Injection pump, Double layer fuel pipe
Injection Advance Angle	10±0.5 ° CA
Max. Allowable Temp Fuel inlet	50 °C
Approximate Fuel Flow to pump	1.9 L/min
Approximate Fuel Temp return to tank	80 °C
Approximate Fuel Flow return to tank	1.9 L/min
Intake Manifold pressure	229 kpa
Intake Air Flow	2334.3 kg/h
Exhaust Gas Flow	2414.8 kg/h
Exhaust Gas Temp.	≤610 °C
Cooling System	Jacket Water
Thermostat Opening Temp.	77 °C
Thermostat Full open Temp.	90 °C
Flywheel Rotated Direction	Anti-clockwise
Dimension (L×W×H)	1680×884×1550 mm
Max. Allowable air intake Press	5 kpa
Max. Allowable Exhaust outlet Press	8 kpa
Capacity of oil Pan	22~30 L
Rated condition oil Pressure Range	0.2~0.4 MPa
Athwart ships	15 °
Tilt Longitudinal	5 °
Swing Athwart ships	22.5 °
Longitudinal	7.5 °

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★Connection of Output

Flywheel Housing: SAE1# 12×M12 D18mm ϕ 25mm

Flywheel: SAE14# 12×M10 D 20mm ϕ 27mm

Pulley Crankshaft: 6 slot B type, with flange

★Seawater Pump

Ratio: 2.11

Self-priming=2m Hg;

Speed $n=2800\text{rpm}$ @ flow $Q \geq 20\text{m}^3/\text{h}$,

Lifting $H=15\text{m Hg}$;

★Charging Alternator

Rated power 1000W

Rated Voltage 28V

Speed 6000r/min

Current 36A

★Starter

Rated power: 9kW

Voltage: 24V

★Instrumentation System

Oil press. Low Warning: 0.12MPa

Over Speed Warning: 115% of rated speed

Shut down oil low Press.: 0.10MPa

Shut down over speed: 120% of rated speed

Overheat Water temp. Warning: 95°C

Shut down oil temp.: 115°C

Solenoid: DC24V, Normal open