
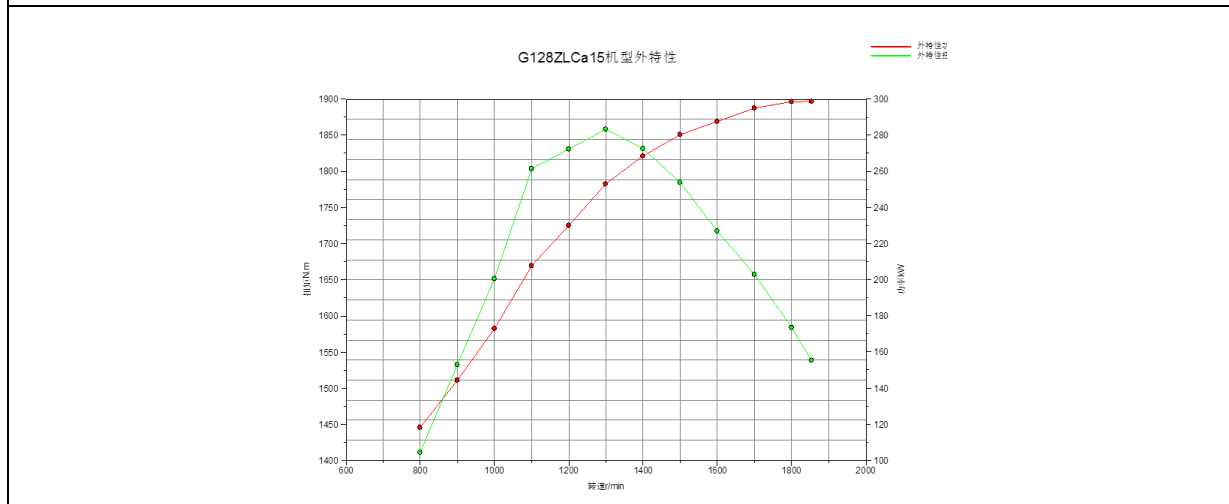


Shanghai Diesel Engine Co., Ltd.

	SDEC SPECIFICATIONS for Marine Engine		Engine model G128ZLca15
			Order No G0313
Displacement	12.88L	Rated power/speed	267/1800 kW/r/min
Bore	135mm	Overload power/speed	294/1854 kW/r/min
Stroke	150mm	Oceangoing rated power/speed	254.9/1800 kW/r/min
Cylinder No.	6	Oceangoing overload power/speed	280.3/1854 kW/r/min
Fuel system	mechanical	Type	Turbocharged&intercooled

Cert: CCS、IMO Tier II



external characteristic curve			propelling characteristic curve			
speed	power	torque	speed	power	torque	fuel consumption
r/min	kW	N. m	r/min	kW	N. m	g/kW. h
1854	298.7316	1538	1854	293.7	1513	220.7
1800	298.7017	1584	1800	267	1417	216.3
1700	295.1376	1657	1738	240.3	1320	214.5
1600	287.6975	1717	1635	200.3	1170	214.1
1500	280.4003	1785	1428	133.5	893	217.2
1400	268.5233	1832	1134	66.8	562	225.5
1300	253.0646	1859				
1200	230.0642	1831				
1100	207.8492	1804				
1000	172.9413	1652				
900	144.3852	1532				
800	118.2294	1411				

remark:

- ★The measurement of rated power&speed is according to standard reference condition under ISO 8665 (atmospheric pressure 100kpa, ambient temperature 25℃, Relative humidity 30%, intercooler inlet temperature 25℃), without any accessories, the guaranteed max power after running-in
- ★The measurement of oceangoing power&speed is according to specified environmental condition under IACS (atmospheric pressure 100kpa, ambient temperature 25℃, Relative humidity 60%, intercooler inlet temperature 32℃), without any accessories, the guaranteed max power after running-in

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★Power tolerance: the max tolerance between rated power or overload power should not above 5%

General specification

Engine model.....	G128ZLCa15
Usage.....	Marine Propulsion
Type.....	Turbocharged&Intercooled
Rated Power/Speed.....kW/r/min	267/1800
Overload power/speed.....kW/r/min	294/1854
Oceangoing rated power/speed.....kW/r/min	254.9/1800
Oceangoing overload power/speed.....kW/r/min	280.3/1854
Max torque @1000r/min.....N.m	1720/1300
Max unload stable speed.....r/min	1980
max output power of crankshaft front end.....	35%
Compression Ratio.....	15.5:1
Average piston speed.....m/s	9
Ignition Order.....	1-5-3-6-2-4
Net Weight.....kg	1350
Speed Governing Rate.....%	≤10
min unload speed.....r/min	≤675±25
Fuel system.....	mechanical pump, dual walled fuel pipe
advance angle of injection.....° CA	11.5±0.5
max temp of inlet fuel.....°C	50
Max fuel inlet flow.....°C	2.0
Max temp of return fuel.....°C	80
Max fuel return flow.....L/min	2.0
Air intake pressure.....kpa	183.6
Air intake flow.....kg/h	1886.0
Exhaust flow.....kg/h	1954.3
Exhaust temp.....°C	≤600
Cooling system.....	Seawater-fresh water double system
open temp of thermostat.....°C	77
full-open temp of thermostat.....°C	90
Crankshaft Rotation.....	Anticlockwise (From flywheel)
Oversize(L×W×H).....mm	1680×884×1550
Max allowable air inlet restriction.....kpa	5
Max allowable air outlet restriction.....kpa	8
oil pan capacity.....L	22~30
declared working condition oil pressure.....MPa	0.2~0.5
infeed.....°	15
Incline& trim.....°	5
swing rolling.....°	22.5
pitch.....°	7.5

★power output interface

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flywheel house: SAE1# 12×M12 depth 18mm bore 25mm flywheel: SAE14# 12×M10 depth 20mm bore 27mm
belt pulley: 6groove B type, with flange

★seawater pump

transmission: 2.11

self-suction=2m;

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

lift H=15m;

★alternator

rated power 1000W

rated voltage 28V

rated speed 6000r/min

rated current 36A

connection mode: double

★starter

rated power: 9kW

rotation direction: clockwise(from drive end)

rated voltage: 24V

connection mode: double

★instrument system

low oil pressure alarm value: 0.12MPa

over speed alarm value:115% rated speed

Low oil pressure stop value: 0.10MPa

over speed stop value:120% rated speed

High water temp alarm value: 95°C

High oil temp alarm value: 115°C

Electromagnet: DC24V,N.O type

★detail connection size as per outline drawing