

MARINE PROPULSION

ENGINE SPECIFICATIONS

Engine Type	Inline-6 Cylinders, 4-Stroke Diesel
Bore X Stroke	114mm X 135mm
Aspiration	Turbocharged & Intercooled
Displacement	8.27L
Rotation	Anti-clockwise facing flywheel
Emissions	IMO II



POWER RATINGS & PERFORMANCE DATA

Power Rating	Medium Intermittent Duty		Light Intermittent Duty
Rated RPM	2300	2330	2430
kW	219	228.5	259
Fuel Oil Consumption in rated power L/Hr	57.2	59.7	67.2

ENGINE FEATURES

Certifications

Emissions compliant to IMO ANNEX VI of MARPOL 73/78 guidelines. Certifications available for CCS

Engine Design

Engine is developed by a CUMMINS 6CTA8.3 series engine, robust engine block designed for continuous duty operation and long life. Metric O-ring seals and edge molded gaskets eliminate fluid leaks. L.O injection cooled aluminum silicon alloy piston design with 3 high performance rings, fracture split connecting rod with angle tightening method. Wet type replaceable cylinder liner. One whole piece cast iron design cylinder head assembly, each unit with one inlet valve and one exhaust valve. Forged steel alloy crankshaft with 7 bearings

Cooling System

Fresh/raw water multi-tubular heat exchanger. Fresh water thermostatic valves and expansion tank. Cast iron centrifugal fresh water pump and rubber impeller centrifugal raw water pump. Fresh water inlet filter with DCA treatment

Electrical System

Voltage: 24Vcc, electrical starter on flywheel crown, local control and alarm panel with remote panel, engine stop solenoid valve

Fuel Oil System

Inline injection fuel pump with full speed mechanical governor. Double skin fuel injection pipe with fuel leak alarm. Spin-on single unit fuel oil secondary filter. Sea water cooled fuel oil cooler

Lubrication System

Spin-on single unit oil filter provide extended service interval and less maintenance. Special oil pan design in order to enhance crank case ventilation and L.O circulation. F.W cooled plate type L.O cooler. Closed crank case ventilation with oil and gas separator which provide better working environment in engine room

Exhaust & Intake Air System

Fresh water cooled exhaust manifold and turbocharger. Raw water cooled intake air cooler which made of high corrosive resistance bronze fins. Silent type air intake cleaner and cast aluminum air intake manifold

Options

Air starter, dirty oil hand pump, remote control panel, water separating primary fuel oil filter, engine resilient mounts

ENGINE DIMENSIONS

Model	Length mm	Width mm	Height mm	Weight kG
D683ZLCA	1458	823	1028	800
Medium intermittent duty:	Varied load operations, allow 6 hours full load every 12 hours, mean engine load factor: 20-80%, typical running hours < 3000hrs/year			
Light intermittent duty:	Varied load operations, allow 2 hours full load every 8 hours, mean engine load factor: 50%, typical running hours < 1500 hrs/year			

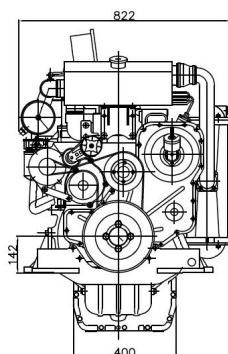
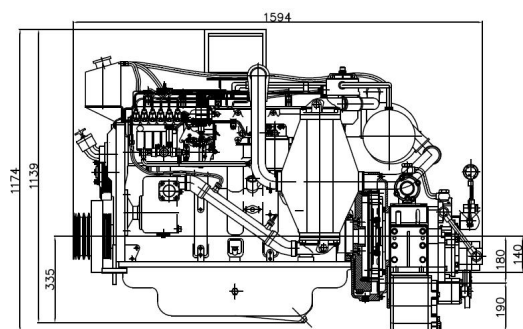
SDEC D683



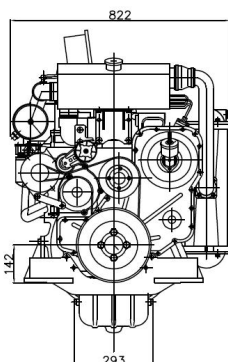
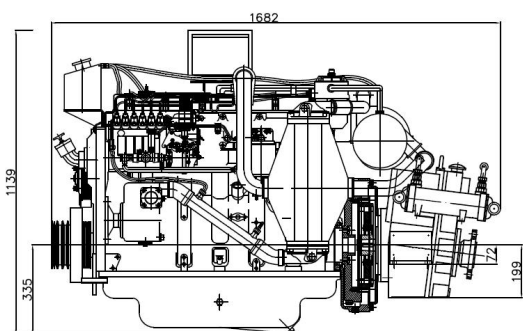
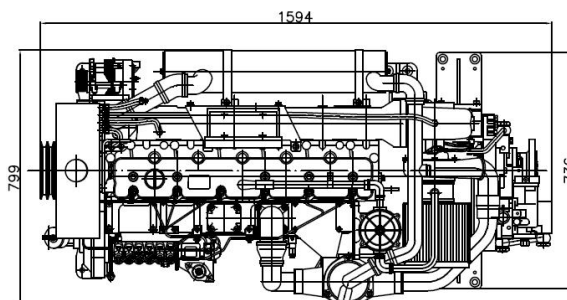
上柴动力
SDEC POWER



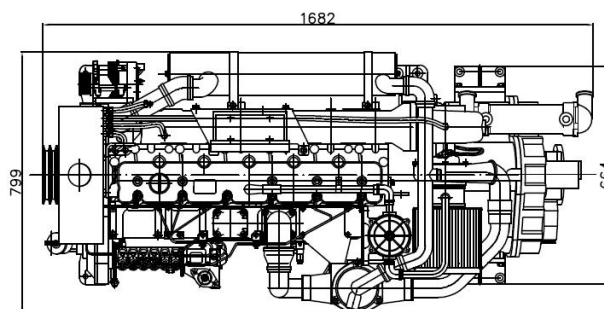
创远动力
CHUANGYUAN POWER



Marine Gear Model	120C
Gear Ratio	1.48, 1.94, 2.45, 2.96
Marine Gear Dry Weight	225kg
Dry Weight with Gear	1025kg
Application	Small work boats, Passenger ferry, Fast craft



Marine Gear Model	MV100A, 7° down angle
Gear Ratio	1.23, 1.62, 2.07, 2.56, 2.87
Marine Gear Dry Weight	220kg
Dry Weight with Gear	1020kg
Application	Small work boats, Passenger ferry, Fast craft



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