

Marine Engine- 6160 Series

General Specifications

160x255 mm Bore & Stroke

27.1 L Displacement

Cylinder Number 6

14.5:1 Compression ratio

Fuel System Mechanical Pump

Aspiration T/TA

Emission Standard IMO Tier II

| Duty | Model | HP | kW | RPM |
|------|--------------|-----|-----|------|
| P1 | R6160ZC223-1 | 223 | 164 | 1000 |
| P1 | R6160ZC250-1 | 250 | 184 | 1000 |
| P1 | R6160ZC275-1 | 275 | 202 | 1000 |
| P1 | R6160ZC300-1 | 300 | 220 | 1000 |
| P1 | R6160ZC350-1 | 350 | 255 | 1000 |



| Duty | Model | HP | kW | RPM |
|------|--------------|-----|-----|------|
| P1 | R6160ZC380-1 | 380 | 280 | 1000 |
| P1 | R6160ZC408-1 | 408 | 300 | 1000 |
| P1 | R6160ZC450-1 | 450 | 330 | 1000 |
| P1 | R6160ZC490-2 | 490 | 360 | 1200 |

Standard Equipments

Engine and block

Cast iron gantry type structure block

One-piece casting crankshaft

Separate cast iron cylinder heads and wet liners

Aluminium alloy pistons with gallery oil cooling

Cooling system

Fresh / raw water heat exchanger with integrated thermostatic

valves and expansion tank

Cast iron centrifugal fresh water pump, mechanically driven

Self-priming raw water pump, mechanically driven

Lubrication system

Filter with metal element, washable

Fresh water cooled lube oil cooler

Optional Equipments

Air starter with storage bottles

Different harness length of remote monitor

Free end PTO

Fuel system

P-type in-line injection pump

Dual-skinned fuel pipe with alarm and leakage collector

Duplex fuel filters replaceable engine running

Intake air and exhaust system

Washable air filter

Turbocharger optimized for marine application

Water jacket exhaust manifold and exhaust expansion joint

Electrical system

24V electric starter motor and battery charging alternator

Voyage safeguard monitor and 5m harness

Certification

CCS and EIAPP

Equipment and factory trial according to Major Classification

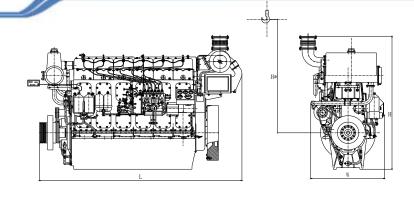
Societies rules

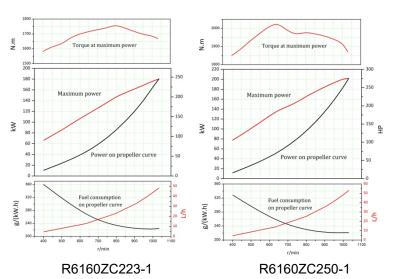
| | P1 Duty | P2 Duty | P3 Duty | P4 Duty |
|-------------------------|-------------------------|----------------|---------------|------------------|
| Application | Unrestricted continuous | continuous | intermittent | high performance |
| Engine load variations | Very little or none | continuous | important | very important |
| Mean engine load factor | 80 to 100% | 30 to 80% | 50% | 30% |
| Annual working time | More than 5000 h | 3000 to 5000 h | 1000 to 3000h | less than 1000 h |
| Time at full load | unlimited | 8 h each 12 h | 2 h each 12 h | 1 h each 12 h |



Dimensions and Weight

| Length | 2644 mm |
|------------|---------|
| Width | 1134 mm |
| Height | 1768 mm |
| Dry Weight | 3400 kg |





Power definition

Standard ISO 3046/1 -1995(F)

Reference conditions

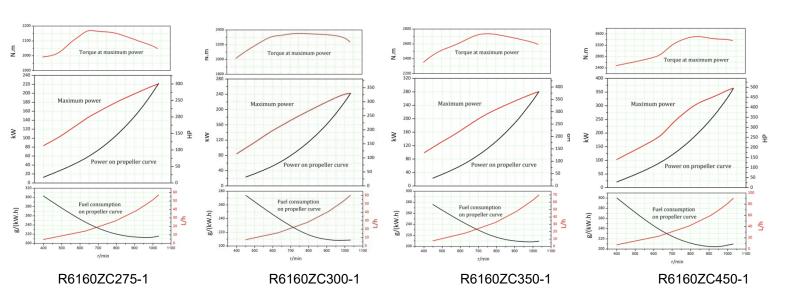
| Ambiant temperature | 25 °C |
|-----------------------|---------|
| Barometric pressure | 100 kPa |
| Relative humidity | 30% |
| Raw water temperature | 25 °C |

Fuel

| Relative density | 0,840 ± 0,005 |
|------------------------|---------------|
| Lower calorific power | 42 700 kJ/kg |
| Consumption tolerances | ± 5 % |

Lube oil

Recommend grade CD 15W/40



Distributed By:

Manufacturer: Shanghai Diesel Engine Family Co., Ltd Address: Room 1007, Building A, No. 399, Hengnan Road, Minhang District, Shanghai, China www.diesel-family.com www.engine-family.com