Rating type A1: 478 kW (650 HP) @ 2530 rpm

### **SPECIFICATIONS**

Thermodynamic cycle		Diesel 4 stroke
Air Feeding		TCA
Cylinders arrangement		6L
Bore x Stroke	millimeters	117 x 135
Total displacement	liters	8.7
Valves per cylinder	number	4
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Engine management		by EDC (Electronic Diesel Control)
Injection System		CR

### **WEIGHT AND DIMENSIONS**

Dimensions (L x W x H)	mm	1226 x 868 x 962
Dry Weight	Kg	1014

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

# **ELECTRICAL SYSTEM**

/oltage		0.4
	V	24

### STANDARD CONFIGURATION

Flywheel housing	type	SAE 1
Flywheel size	inch	14"
Air filter		rear side
Turbocharger	Waste G	Sate (water cooled) Turbo with Aftercooler (TCA)
Heat excharger		tube type
Exhaust gas water mixer - Ex	haust cooled elbow	-
Water charge tank		included
Fuel filter	number	1 - right side
Fuel prefilter		included (loose)
Fuel pump		1 - gear driven
Oil filter	number	2 - left side
Oil sump		aluminium
Oil vapours blowby circuit		included
Oil heat exchanger		included
Oil filler		by cylinder head cover
Starter		24V - 5.5kW
Alternator		28 V - 90 A
Engine stop device		by electronic central unit
Wiring harness		with negative to ground connection
Painting color		white "ICE"

### NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	Ah	2 x 120 Ah
Battery - minimum cold cranking capacity recommended	Ah	900 Ah

## Do you want to know more?

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TC (Turbocharged)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	NA (Naturally Aspirated)	VGT (Variable Geometry Turbocharger) TST (Twin Stage Turbocharge)	CR (Common Rail)	SCR (Selective Catalytic Reduction)
	TCA (Turbocharged with aftercooler)		EUI (Electronic Unit Injector)	
			MPI (Multi Point Injection)	

A1 High Performance Crafts. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 300 hours per year.

A2/B1 Pleasure Commercial Vessels. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1000 hours per year.

B Light Duty: Full throttle operation restricted within 10% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 1500 hours per year.

C Medium Duty: Full throttle operation < 25% of use period. Cruising speed at engine rpm <90% of rated speed setting - Maximum usage 3000 hours per year. D Heavy Duty

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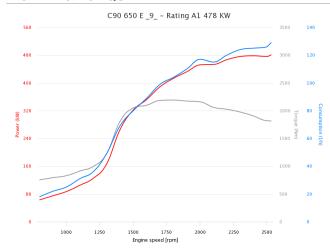
SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE





RATING TYPE		A1
Maximum power [*]	kW (HP)	478 (650)
At speed	rpm	2530
Maximum no load governed speed at max rating	rpm	2700
Minimum idling speed	rpm	600
Mean piston speed at rated speed	m/s	11.4
BMEP at max power	bar	26.5
Specific fuel consumption (best value)	g/kWh @ rpm	209 @ 1500
IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008)		✓
RCD Stage 2 (2013/53/EC)		✓
IWV Stage V (EU 2016/1628)		-
EPA Tier 3 Commercial		-
EPA Tier 3 Recreational		✓
China GB I (GB15097-2016)		-
China GB II (GB15097-2016)		-
Oil consumption at max rating	(% of fuel cons.)	= 0.2
Minimum starting temperature without auxiliaries	°C	-10°
Oil and oil filter maintenance interval for replacement	hours	300

#### **POWER & TORQUE**



\* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

LEGEND					
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	VGT (Variable Geometry Turbocharger)	CR (Common Rail)	SCR (Selective Catalytic Reduction)		
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