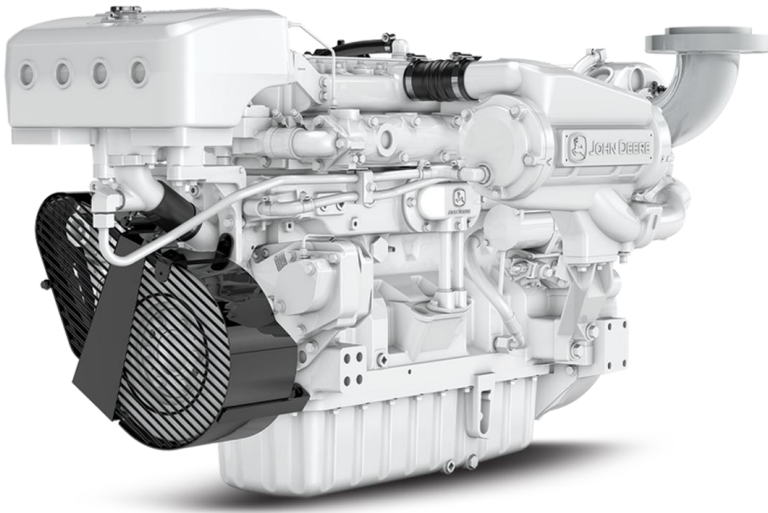




JOHN DEERE

6090AFM85 M1 Marine Diesel



Hästkrafter / kW: 285hk / 213kW

Max rpm: 2100

Konfiguration: Rak 6cyl, 9L

Borrning och slag: mm 118 x 136

Aspiration Turbo - intercooler

Laddluftkylare

Max längd: mm 1712

Längd till baksidan av sprängkåpa: mm 1415

Sprängkåpa: SAE 2

Höjd: mm 984

Höjd, vevaxelns mittlinje till topp: mm 665

Höjd, vevaxelns mittlinje till botten: mm 319

Vikt, torr: kg 1055

Pris: 387.900:- inkl. moms (se spec. nr: C254751)

John Deere motorer är tillförlitliga, tysta, bränslesnåla och ger utmärkt manövreringsförmåga tack vare högt vridmoment redan från låga varvtal.

John Deere har sedan 1949 tillverkat över 5 miljoner dieselmotorer för marin och offroad applikationer.

Motorerna levereras skräddarsydda med flera valmöjligheter för elsystem, generatorstorlek, svänghjulsåpa, kylningstyp och placering av servicepunkter.

Sortimentet på John Deere 6090 sträcker sig från 285 hk till 550hk.

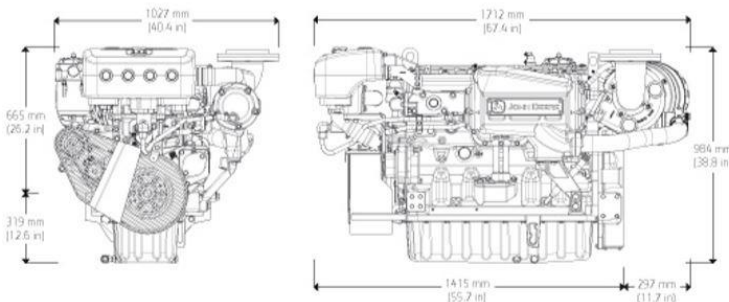
Tillförlitlig kraft och säkerhet för tuffa krav får du om du väljer John Deere.

Produktinfo:

- M1 rating obegränsat årligt användande
- SAE 2 housing and SAE 11 1/2" disc
- Motorfästen
- Motorkudde 4st PC-182, 55 Sh
- Instrument panel (Generation II Marine Electronics)
- Kablage ECU till instrumentpanel, 9m) (Gen II M. E.)
- Kablage Motor till ECU, 3 ft (1M) (Gen II M. E.)
- Kickback Start and Transfer Pump Relay, 12-volt
- 12V
- Blöta avgaser med värmeväxlare

Tillval & tillbehör:

Backslag TM-360 continuous duty 3.0, 3.5, 4.0 & 5.0:1	118.000:-
Bowman oljekyl (för backslag)	10.000:-
24v & 2polig el	1.200:-
Torra avgaser (istället för blöta)	- 11.240:-
Kölkylad med torra avgaser	- 36.300:-
Motorolja 20L JD Plus II 15W-40	1.700:-
Kylarvätska 20L Cool-Gard II PG 20 I, färdigbl.	1.830:-
Oljefilter	300:-
Bränslefilter kit (primary and final filter 2 & 10mic	1.150:-
Impellerkit	2.020:-
Zinkanod + plugg	266:-



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

Diesel Power AB

Kungsparksvägen 21
SE-434 39 Kungsbacka

Tel: +46 31-748 62 00
info@dpower.se

Alla priser är inkl. moms, vi friskriver oss ev. felskrivningar

General Data

Model	6090AFM85		
Number of Cylinders	6		
Bore	118 mm	4.65 in	
Stroke	136 mm	5.35 in	
Displacement	9.0 L	549 in ³	
Compression Ratio	16.3:1		
Valves per Cylinder, Intake/Exhaust	2/2		
Combustion System	Direct injection		
Firing Order	1-5-3-6-2-4		
Engine Type	In line, 4 Cycle		
Aspiration	Turbocharged and Aftercooled		
Aftercooling System	Engine coolant		
Engine Crankcase Vent System	Closed		

Cooling System*

Engine Coolant Heat Rejection**	237 kW	13479 BTU/min	
Max. Pressure Drop Across Keel Cooler	40 kPa	5.8 psi	
Coolant Flow	315 L/min	83 gal/min	
Min. Coolant Pump Inlet Pressure	30.3 kPa	4.4 psi	
Thermostat Start to Open	71 °C	160 °F	
Thermostat Fully Open	83 °C	182 °F	
Engine Coolant Capacity, HE	42 L	11.1 gal	
Engine Coolant Capacity, KC	40 L	10.6 gal	
Min. Coolant Fill Rate	12 L/min	3.2 gal/min	
Min. Pressure Cap	110.3 kPa	16 psi	
Max. External Coolant Restriction	40 kPa	5.8 psi	
Normal Operation Max Top Tank Temperature	100 °C	212 °F	
≤ 5% of Total Operating Time Top Tank Temperature	100-110 °C	212-230 °F	
Absolute Max Top Tank Temperature	110 °C	230 °F	
Recommended Fuel Cooler	4 kW	206 BTU/min	
Engine Radiated Heat	32 kW	1845 BTU/min	

Fuel System

ECU Description	L14		
Fuel Injection Pump	Denso HP4		
Governor Type	Electronic		
Volumetric Fuel Consumption	64.6 L/hr	17.1 gal/hr	
Mass Fuel Consumption	54.9 kg/hr	121 lb/hr	
Total Fuel Volumetric Flow	240 L/hr	63.4 gal/hr	
Total Fuel Mass Flow	204 kg/hr	450 lb/hr	
Max. Fuel Inlet Restriction*	20 kPa	80 in.H2O	
Max. Fuel Inlet Pressure	20 kPa	80 in.H2O	
Max Fuel Return Pressure	20 kPa	80 in.H2O	
Normal Operation Fuel Temperature	40 °C	104 °F	
Max. Fuel Inlet Temperature	100 °C	212 °F	
Min. Recommended Fuel Line Inside Diameter	8.34 mm	0.33 in	
Min. Recommended Fuel Line Size	6 (-) AN		
Primary Fuel Filter	10 mic		
Secondary Fuel Filter	2 mic		

Lubrication System

Oil Pressure at Rated Speed	300 kPa	44 psi	
Oil Pressure at Low Idle (650rpm)**	141 kPa	20 psi	
Max. Crankcase Pressure	2 kPa	8 in.H2O	
Maximum Installed Angle, Front Down	0 deg		
Maximum Installed Angle, Front Up	12 deg		
Engine Angularity Limits Any Direction, Continuous***	20 deg		
Engine Angularity Limits Any Direction, Intermittent***	30 deg		

Seawater Pump System

Seawater Pump Flow	397 L/min	105 gal/min	
Max. Suction Lift	3 m	9.8 ft	
Max. Outlet Pressure	140 kPa	20 psi	
Max. Inlet Restriction	30 kPa	4 psi	

Physical Data

Length to rear face of block	1297 mm	51.1 in	
Length to rear face of flywheel housing (SAE #2)	1415 mm	55.7 in	
Length maximum	1712 mm	67.4 in	
Width maximum	1027 mm	40.4 in	
Height, crank centerline to top	665 mm	26.2 in	
Height, crank centerline to bottom	319 mm	12.6 in	
Weight, with oil, no coolant (includes engine, flywheel housing, flywheel, and electronics)	1055 kg	2325 lb	
Center of Gravity Location, X-axis From Rear Face of Block	408 mm	16.1 in	
Center of Gravity Location, Y-axis Right of Crankshaft	38 mm	1.5 in	
Center of Gravity Location, Z-axis Above Crankshaft	200 mm	7.9 in	
Max. Allowable Static Bending Moment At Rear Face of Flywheel Housing (for installations up to 5-G)	814 Nm	600 lb-ft	
Thrust Bearing Load Limit, Forward Continuous	8.6 kN	1933 lbf	
Thrust Bearing Load Limit, Forward Intermittent	13 kN	2923 lbf	
Thrust Bearing Load Limit, Rearward Continuous	4 kN	899 lbf	
Thrust Bearing Load Limit, Rearward Intermittent	6 kN	1349 lbf	

Electrical System

Min. Recommended Battery Capacity, 12V @32 °F (0 °C)	1100 amps		
Min. Recommended Battery Capacity, 24V @32 °F (0 °C)	750 amps		
Starter Rolling Current, 12V @32 °F (0 °C)	920 amps		
Starter Rolling Current, 24V @32 °F (0 °C)	600 amps		
Min. Voltage at ECU during Cranking, 12V	6 volts		
Min. Voltage at ECU during Cranking, 24V	10 volts		
Max. Allowable Start Circuit Resistance, 12V	0.0012 ohms		
Max. Allowable Start Circuit Resistance, 24V	0.002 ohms		
Electrical Component Maximum Temperature Limit	125 °C	257 °F	
Maximum ECU Temperature	105 °C	221 °F	

Air Intake System

Engine Air Flow	20.8 m ³ /min	735 ft ³ /min	
Intake Manifold Pressure	176.4 kPa	25.6 psi	
Manifold Air Temperature	83 °C	181 °F	
Maximum Manifold Air Temperature	130 °C	266 °F	
Max. Allowable Temperature Rise, Ambient	17 °C	30 °F	
Air to Engine Inlet			
Max. Air Intake Restriction, Clean Air Cleaner	3 kPa	12 in.H2O	
Max. Air Intake Restriction, Dirty Air Cleaner	6.25 kPa	25 in.H2O	
Min. Ventilation Area	0.128 m ²	198 in ²	

Performance Data

Rated Power	213 kW	285 hp	
Rated Speed	2100 RPM		
Peak Torque Speed	1600 RPM		
Low Idle Speed	650 RPM		
Rated Torque	967 Nm	713 ft-lb	
Peak Torque	1272 Nm	938 ft-lb	
BMEP, Rated	1350 kPa	196 psi	
Rated Pferdestärke (metric hp)	289 ps		
Front Drive Capacity, Intermittent	955 Nm	704 lb-ft	
Front Drive Capacity, Continuous	955 Nm	704 lb-ft	

Exhaust System

Exhaust Flow	49 m ³ /min	1730 ft ³ /min	
Exhaust Flow @ gas STP	20.3 m ³ /min	717 ft ³ /min	
Exhaust Temperature	448 °C	838 °F	
Max. Allowable Exhaust Restriction	7.5 kPa	30 in.H2O	
Max. Shear on Turbocharger Exhaust Outlet	11 kg	24.3 lb	
Max. Bending Moment on Turbocharger Exhaust Outlet	7 Nm	15.4 lb-ft	
Min. Exhaust Pipe Diameter, Dry	114.3 mm	4.5 in	
Min. Exhaust Pipe Diameter, Wet	127 mm	5.0 in	

