



JOHN DEERE

Marine ratings Propulsion and Auxiliary

Non emissions certified engines

	4045DFM50	4045TFM50	6068TFM50
Displacement - l	4.5	4.5	6.8
Number of cylinder	4	4	6
M1 - hp (kW) @ rpm	75 (56) @ 2400	105 (78) @ 2300	154 (115) @ 2300
M2 - hp (kW) @ rpm	85 (63) @ 2500	120 (90) @ 2400	175 (130) @ 2400
M3 - hp (kW) @ rpm	-	135 (101) @ 2500	200 (149) @ 2500
M4 - hp (kW) @ rpm	-	150 (112) @ 2600	225 (168) @ 2600
M5 - hp (kW) @ rpm	-	-	-
Injection	Mechanical	Mechanical	Mechanical
Length - mm	885	885	1141
Width - mm	712	712	712
Height - mm	903	912	881
Weight - kg	437	462	590

NEW

Emissions certified* engines for propulsion and auxiliary applications

	4045DFM70	4045TFM75	6068TFM75	6068SFM50	6068AFM75	6068SFM75	6081AFM75	6090SFM75	6125AFM75	6125SFM75
Displacement - l	4.5	4.5	6.8	6.8	6.8	6.8	8.1	9.0	12.5	12.5
Number of cylinder	4	4	6	6	6	6	6	6	6	6
M1 - hp (kW) @ rpm	-	107 (80) @ 2400	158 (118) @ 2400	182 (136) @ 2200	230 (171) @ 2300	249 (186) @ 2400	235 (175) @ 2100	325 (242) @ 2100	341 (254) @ 1800	380 (283) @ 1800
M2 - hp (kW) @ rpm	80 (60) @ 2500	121 (90) @ 2500	178 (133) @ 2500	208 (155) @ 2300	265 (197) @ 2400	280 (209) @ 2500	300 (224) @ 2200	375 (280) @ 2200	400 (298) @ 1900	449 (335) @ 1900
M3 - hp (kW) @ rpm	-	135 (101) @ 2600	201 (150) @ 2600	236 (176) @ 2400	300 (224) @ 2500	321 (239) @ 2600	330 (246) @ 2300	425 (317) @ 2300	455 (339) @ 2000	526 (392) @ 2000
M4 - hp (kW) @ rpm	-	-	-	267 (199) @ 2500	330 (246) @ 2600	355 (265) @ 2700	375 (280) @ 2400	500 (373) @ 2400	526 (392) @ 2100	610 (455) @ 2100
M5 - hp (kW) @ rpm	-	-	-	300 (224) @ 2600	-	400 (298) @ 2800	-	-	-	-
Injection	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Length - mm	885	885	1141	1183	1021	1380	1299	1293	1426	1426
Width - mm	713	712	712	721	860	1122	787	917	850	1122
Height - mm	912	912	912	946	937	959	1005	319	1138	946
Weight - kg	437	462	590	636	812	890	853	1066	1372	1475

- EPA Tier 2
 - 2004/26/EC for Inland Waterway Vessels (propulsion engines)
 - CCNR (consult us for details)
 - 2003/44/EC for Recreational Crafts
 - IMO for ratings above 130kW

M rating	Load factor ⁽¹⁾	Annual usage	Full power operation
M1	≤100%	≤8 760 h	Uninterrupted ⁽²⁾
M2	≤65%	≤3 000 h	16 of each 24 h ⁽³⁾
M3	≤50%	≤2 000 h	4 of each 12 h ⁽³⁾
M4	≤40%	≤800 h	1 of each 12 h ⁽³⁾
M5	≤35%	≤300 h	½ of each 8 h ⁽⁴⁾

- (1) Example : an engine burns 160 l of fuel during an 8-hour run – full power fuel consumption is 60 l/h.
The load factor is 160 litres / (60 litres per hour x 8 hours) = 33.3%
- (2) Corresponds with ISO 8665 standard power and SAE J1228 crankshaft power
- (3) Cruising speed the rest of the time. Cruising is any operating time where the engine speed is more than 200 rpm less than the maximum attainable engine speed.
- (4) No operation during the remaining 16 h.

John Deere Power Systems

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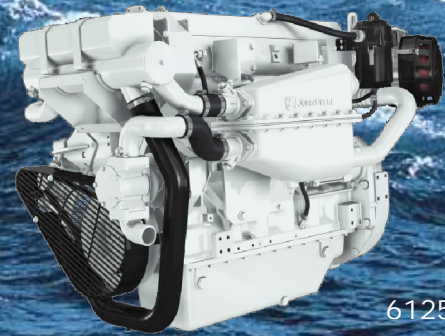
BEYOND THE BOUNDARIES

50 Hz - Non emissions certified ratings for genset									
	4045DFM50	4045DFM70	4045TFM75	4045TFM50	6068TFM50	6068TFM76	6068SFM75	6081AFM75	6125SFM75
Displacement - l	4.5	4.5	4.5	4.5	6.8	6.8	6.8	8.1	12.5
Number of cylinder	4	4	4	4	6	6	6	6	6
Rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Engine prime power - kW	40	40	55	57	89	89	146	162	307
Engine prime power - hp	54	54	74	76	119	119	196	217	412
prime kVA*	44-46	44-46	60-64	62-65	98-103	98-103	160-168	178-186	338-353
prime kWe*	35-37	35-37	48-51	50-52	78-82	78-82	128-134	142-149	270-282
Injection	Mechanical	Mechanical	Electronic	Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic
Length - mm	885	885	885	885	1300	1141	1380	1299	1801
Width - mm	713	712	712	713	703	703	1122	787	1032
Height - mm	911	902,5	912	911	882	882	959	1005	1150
Weight - kg	437	437	462	462	590	590	890	853	1475

*Typical generator efficiency 88-92%

60 Hz - Non emissions certified ratings			
	4045DFM50	4045TFM50	6068TFM50
Displacement - l	4.5	4.5	6.8
Number of cylinder	4	4	6
Rpm	1800	1800	1800
Engine prime power - kW	48	71	115
Engine prime power - hp	64	95	154
prime kVA*	52-55	78-81	124-132
prime kWe*	42-44	62-65	99-106
Injection	Mechanical	Mechanical	Mechanical
Length - mm	885	885	1300
Width - mm	713	713	703
Height - mm	911	911	882
Weight - kg	437	462	590

*Typical generator efficiency 88-92%



6125SFM

John Deere engine naming system

4045T

↓

4
cylinders

↓

displacement:
4.5 l

↓

T = turbocharged
A = turbocharged with charge air cooling system
S = turbocharged with raw water charge air cooling system

60 Hz - Emissions certified EPA Tier 2 ratings for genset							
	4045DFM70	4045TFM75	6068TFM76	6068SFM75	6081AFM75	6125AFM75	6125SFM75
Displacement - l	4.5	4.5	6.8	6.8	8.1	12.5	12.5
Number of cylinder	4	4	6	6	6	6	6
Rpm	1800	1800	1800	1800	1800	1800	1800
Engine prime power - kW	46	73	110	174	195	300	364
Engine prime power - hp	62	98	147	233	261	402	488
prime kVA*	50-53	80-84	121-126	191-200	214-224	330-345	400-419
prime kWe*	40-42	64-67	97-101	156-160	171-179	264-276	320-335
Injection	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Length - mm	885	885	1141	1380	1299	1426	1801
Width - mm	712	712	703	1122	787	850	1032
Height - mm	902,5	912	882	959	1005	1138	1150
Weight - kg	462	462	590	890	853	1425	1475