

Specifications

Standard

	MMG100D**	MMG130D**	MDG150DF4
Output			
3 Phase - Standby (kW/kVA)	86 / 107	107 / 134	145 / 181
Amps (480/208 V)	129 / 297	161 / 372	218 / 503
3 Phase - Prime (kW/kVA)	78 / 98	98 / 122	120 / 150
Amps (480/208 V)	118 / 272	147 / 339	180 / 416
1 Phase - Standby (kW/kVA)	75 / 75	96 / 96	114 / 114
Amps (240V)	313	400	473
1 Phase - Prime (kW/kVA)	71 / 71	90 / 90	108 / 108
Amps	296	375	450
AC Voltage 1-phase	120, 139, 208, 220, 240, 277		240
AC Voltage 3-phase	208, 220, 440, 480		208, 240, 400, 480
Frequency Hz	60		50 / 60
Power Factor	1 (1Ø), 0.8 (3Ø)		
Generator (Brand/Type/Insulation)	Marathon/Brushless/H		
Sound (dB(A) 23 Feet @ prime)	68	68	TBD
CSA Listed	No	Yes	Yes
Size and Weight			
Skid Mounted (1 x w x h) in (m)	119 x 40 x 62 (3.02 x 1.02 x 1.57)	144 x 50 x 77 (3.66 x 1.27 x 1.96)	145 x 50 x 84 (3.7 x 1.3 x 2.1)
Dry Weight lb (kg)	3780 (1714)	5444 (2469)	8500 (3856)
Operating Weight lb (kg)	4740 (2150)	7929 (3596)	11500 (5216)
Trailer Mounted (1 x w x h) in (m)	170 x 69 x 80 (4.32 x 1.75 x 2.03)	210 x 86 x 93 (5.33 x 2.18 x 2.36)	208 x 86 x 104 (5.3 x 2.2 x 2.6)
Dry Weight lb (kg)	4480 (2032)	6840 (3102)	10000 (4535)
Operating Weight lb (kg)	5440 (2468)	9325 (4230)	13000 (5897)
Engine			
After-treatment Components	DOC + DPF	DOC + DPF	SCR + DOC
Brand	John Deere	John Deere	John Deere
Model #	PE4045HFG92	PE4045HFG93	6068HFG05
Aspiration	Turbo	Turbo	Turbo
HP (prime @ 1800rpm) (kW)	121 (90)	152 (113)	196 (146)
Displacement in3 (L)	275 (4.5)	275 (4.5)	415 (6.8)
Cylinders	4	4	6
Speed (rpm)	1800	1800	1800
Fuel Consumed prime gph (Lph)	6.2 (23.5)	7.4 (28.0)	8.8 (33.2)
DEF Consumed prime gph (Lph)	--	--	0.34 (1.3)
Battery (12 volt)	1 - 12V / 720 CCA	1 - 12V / 1000 CCA	2-12V / 1000 CCA
Capacities			
Fuel Tank gal (L)	165 (625)	342 (1295)	358 (1355)
Approximate Run Time hrs	24	44	24
DEF Tank gal (L)	--	--	34.4 (130.4)
AC Distribution			
Main Breaker	400	450	600
Voltage Selection	3 Position Switch (lockable)	3 Position Switch (lockable)	3 Position Switch (lockable)
Voltage Regulation	+/- 0.5%	+/-0.5%	+/- 0.5%
120V - 20 amp GFCI Duplex	2	2	2
240V - 30 amp Twist Lock	N/A	N/A	N/A
240V - 50 amp Twist Lock	3	3	3
Trailer			
# of Axles & Capacity lbs (kg)	1 - 6000 (2722)	1-6000 (2722)	2- 8000 (3629)
Tire Size (in)	15	16	17.5
Brakes	Surge	Surge	Surge
Hitch – Standard	3" Ring	3" Ring	3 " Ring

Specifications and designs are subject to change. **Limited quantities.

ENGINE

- John Deere® PE4045HFG92 - turbocharged, diesel engine
 - Prime - 121 hp @ 1800 rpm
 - Standby - 133 hp @ 1800 rpm
 - 4 cylinder
 - 4.5 L displacement
 - Interim Tier IV approved
- Steel, single wall fuel tank
 - 165 gal. (625 L) capacity
 - 24 hr. run time – full load
 - Fuel tank built into skid of generator set
- Fuel consumption at prime:
 - 100% - 6.2 gph (23.5 Lph)
 - 75% - 4.7 gph (17.8 Lph)
 - 50% - 3.1 gph (11.7 Lph)
- Cooling system capable of operating at 120°F (49°C) ambient
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- Disposable air filter - paper element
- 60 Hz engine/generator
- Electronic isochronous governing

GENERATOR

- Marathon Electric®
 - Brushless
 - 4 pole
 - Class H insulation
- Voltage regulation +/- 0.5% with Magnum PM600 Voltage Regulator

SYSTEM OUTPUTS

- 3 position selector switch
 - Single phase – 120 / 240V Zig Zag
 - Three phase – 120 / 208V Low Wye
 - Three phase – 277 / 480V High Wye
- 75 kW / 75 kVA – standby, single phase
- 71 kW / 71 kVA – prime, single phase
- 86 kW / 107 kVA – standby, three phase
- 78 kW / 98 kVA – prime, three phase

SYSTEM CONTROLS

- Power Zone® controller and display
 - Backlit, 800 x 480 pixel resolution color display
 - -40°F to 185°F (-40°C to 85°C) operating temperature range
 - Automatic coarse voltage adjustment
 - Integrated fine voltage adjustment
 - PLC functionality
- Push buttons for easy operation
 - Manual or Auto Start
 - Engine Start
 - Engine Stop/Reset
 - Alarm Mute
 - Operator Screens
 - Home
 - Engine
 - Generator
 - Voltage Adjust
 - Scrolling Arrows for Diagnostic Information
 - Engine diagnostic display
 - Oil pressure
 - Engine temperature
 - Fuel level
 - Battery
 - After treatment inlet/outlet temperature
 - Ash/soot levels
 - Generator diagnostic display
 - System kW output display
 - Line output & frequency display
 - Alarms
 - Warning
 - Shutdown
 - Electrical Trip
 - Engine
 - Alarm list – warnings / shutdowns; 250 event history log – date/time stamp
 - Fuel level: warning – 15%; shutdown – 5%
 - Over speed protection: shutdown – 115%
 - Oil pressure: warning – 25 psi; shutdown – 20 psi
 - Coolant temperature: warning – 220°F (104°C); shutdown – 230°F (110°C)
 - Battery voltage: over – 15VDC; under – 11VDC
 - Generator over voltage: warning – 110%; electrical trip – 111%
 - Generator under voltage: warning – 87%; electrical trip – 86%
 - Generator over frequency: warning – 105%; electrical trip – 110%
 - Generator under frequency: warning – 95%; electrical trip – 90%

SYSTEM CONTROLS (continued)

- Inputs/Outputs
- Auto Schedule
- Status
- Configuration of controller, firmware and connections

ELECTRICAL CONTROLS

- Remote start / stop contacts located in lug box
- Lockable control box door with diagnostics window
- Lockable lug box with safety switch
 - Trips main breaker when door is opened
 - Disables voltage regulator
- Output ground connection lug inside lug box
- 400A main breaker with shunt trip
- Convenience receptacles with individual breakers (restricted use in high wye mode)
 - (2) 120V 20 Amp GFCI duplex outlets – (NEMA 5-20R type)
 - (3) 125 / 250V 50 Amp, 3 pole, 4 wire Twistlock (Non-NEMA 6369)
- Voltage adjustment integrated into Power Zone controller, +/- 10%
- 720CCA wet cell battery

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
 - 68 dB(A) @ 23 ft. (7 m) – prime power
- Fully lockable enclosure including doors and fuel fill
- Emergency stop switch located on outside of enclosure
- Central lifting point
- Multi-lingual operating/safety decals
- Document holder with operating manual including AC/DC wiring diagrams

TRAILER

- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3 in. (76.2 mm) lunette ring hitch
- 6000 lb. (2722 kg) axle with surge brakes
- 3000 lb. (1361 kg) tongue jack with footplate
- ST225/75R15 tubeless tires – 8 ply

WEIGHT & DIMENSIONS

- Skid mounted
 - o Dry weight: 3780 lbs. (1714 kg)
 - o Operating weight: 4740 lbs. (2150 kg)
 - o 119 x 40 x 62 in. (3.02 x 1.02 x 1.57 m)
- Trailer mounted
 - Dry weight: 4480 lbs. (2032 kg)
 - Operating weight: 5440 lbs. (2467 kg)
 - 170 x 69 x 80 in. (4.32 x 1.75 x 2.03 m)

WARRANTY

2 Years / 2000 Hours

CERTIFICATIONS

CSA Certified