



**DIESEL
GENERATORS**

CUSTOMER DRIVEN • UNSURPASSED VALUE



MAGNUM LITE GENERATORS
MODEL MLG 25 (SHOWN) (PAGES 2–3)

Advanced Features:

- Full Tubular Steel Frame
- Durable Powder Coat Finish
- Up to 48 Hours Full Load Run Time
- External Convenience Outlets with MLG 15, MLG 20, MLG 25



MAGNUM MOBILE FLIP-HOOD GENERATORS
MODEL MMG 45 (SHOWN) (PAGES 4–7)

Advanced Features:

- Patent Approved Flip-Hood/Flip-Tongue Design
- Aluminum Sound Attenuated Enclosure
- Steel Skid Frame and Trailer
- Models with Full Load Run Times Up to 40 Hours



MAGNUM MOBILE GENERATORS
MODEL MMG 130 (SHOWN) (PAGES 4–7)

Advanced Features:

- Aluminum Sound Attenuated Enclosure
- Steel Skid Frame and Trailer
- Models with Full Load Run Times in Excess of 24 Hours
- Detachable Generator-Set and Trailer

GENERATORS

RELIABLE • FLEXIBLE • AVAILABLE • DURABLE

**BUILT IN WISCONSIN, USA
CUSTOMER SUPPORT 24/7/365**

MAGNUM LITE GENERATORS (MLG)



MLG 20 (SHOWN)

ALSO AVAILABLE: MLG 8, MLG 15, MLG 25

Tough

- Steel, lockable enclosure
- Full tubular steel frame
- Durable powder coat finish
- Stainless steel exterior hardware

Reliable

- Key switch on single phase models
- Microprocessor on three phase model
- Low oil/high temp shutdowns
- Start limit main breaker (single phase only)
- Up to 48 hours full load run time
- 2 year 2,000 hour warranty
- Voltage regulation within +/- 1%

Easy to Use

- Self-priming engines
- External convenience outlets with MLG 15, MLG 20, MLG 25
- Individual breakers
- External emergency stop switch
- Three phase models also have voltage selector switch, lugs and lug box safety switch, and automatic remote start

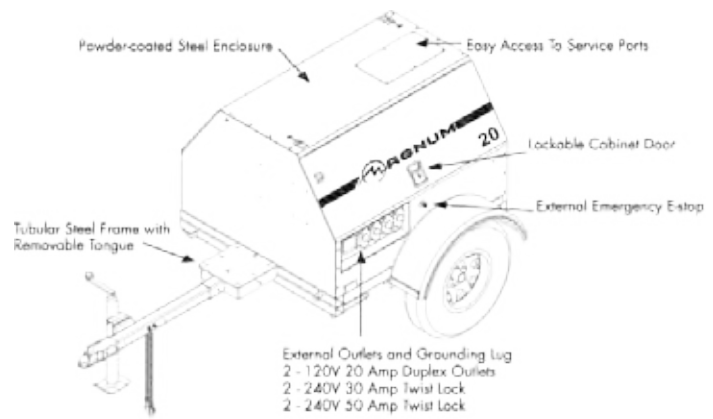
Available Options

- Lower Radiator Hose Heater*
- 60/40 Coolant *
- 720 CCA Gel Cell Battery *
- 775 CCA AGM Sealed Battery *
- Heated Fuel Filter *
- Battery Charger
- Battery Disconnect
- Liquid Containment – Quiet Pack
- 56 Gallon Fuel Tank
- Interior Cabinet Light
- Central Lift Point Structure
- Skid-mounted
- Outrigger Package
- Spare Tire & Carrier
- Combo Hitch – 2/5" Ring/2" Ball
- Pintle Ring Hitch – 2.5" or 3" Ring

*** COLD WEATHER PACKAGE OPTIONS
Call Factory for Details**



Cost Effective Solution for Mobile Power



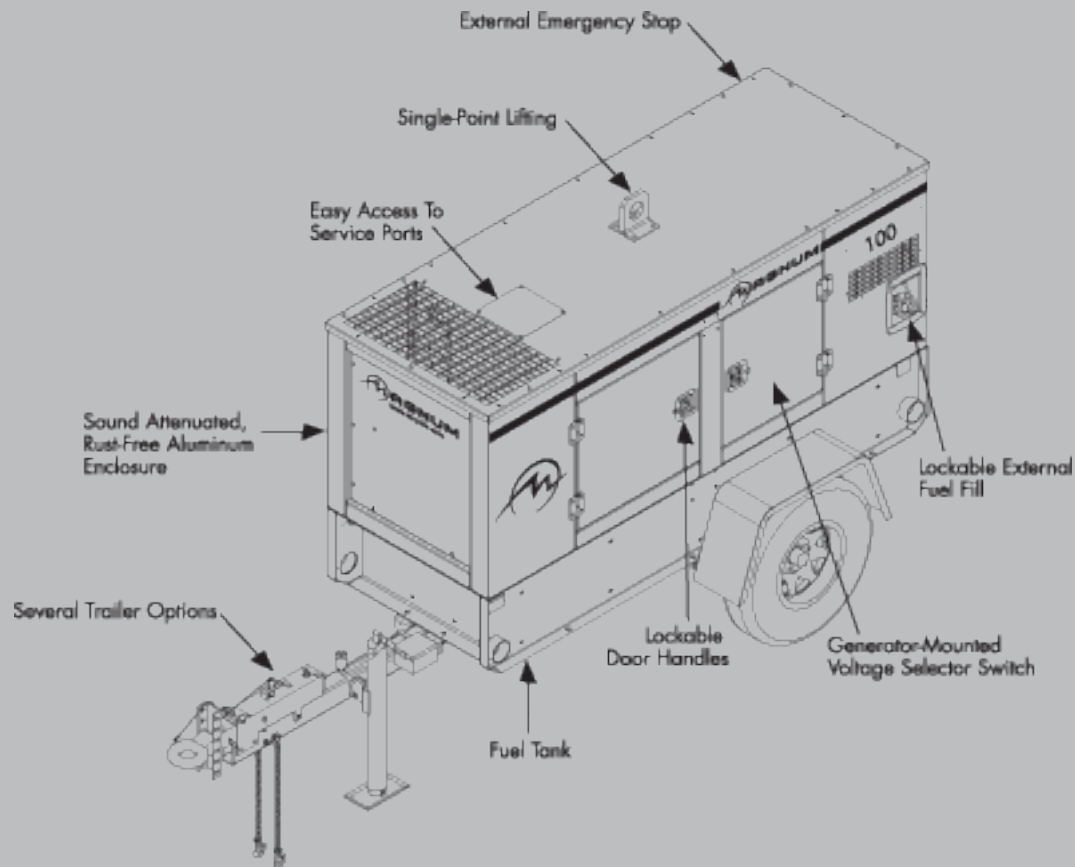
MAGNUM LITE GENERATOR SPECIFICATIONS

Model	MLG 8	MLG 15	MLG 20	MLG 25
Output				
3 Phase - Standby (kW/kVA)	NA	NA	NA	20/25
Amps (480/208 V)	NA	NA	NA	30/69
3 Phase - Prime (kW/kVA)	NA	NA	NA	18/23
Amps (480/208 V)	NA	NA	NA	28/64
1 Phase - Standby (kW/kVA)	9/9	14/14	20/20	16/16
Amps (240V)	37	58	83	67
1 Phase - Prime (kW/kVA)	8.1 / 8.1	13/13	19/19	15/15
Amps	33	54	79	63
AC Voltage 1-phase	120, 240	120, 240	120, 240	120, 139, 208, 220, 240, 277
AC Voltage 3-phase	NA	NA	NA	208, 220, 440, 480
Frequency Hz	60	60	60	60
Power Factor	1.0 (1 Phase)	1.0 (1 Phase)	1.0 (1 Phase)	1.0 (1 Phase) / 0.8 (3 Phase)
Generator (Brand/Type/Insulation)	Marathon/Brushless/F	Marathon/Brushless/F	Marathon/Brushless/F	Marathon/ Brushless/H
Sound (dB(A) 23 Feet @ prime)	70	68	68	68
CSA Listed	Yes	Yes	Yes	Yes
Size and Weight				
Skid Mounted (l x w x h) in	NA	NA	NA	NA
Dry Weight lb (kg)	NA	NA	NA	NA
Operating Weight lb (kg)	NA	NA	NA	NA
Trailer Mounted (l x w x h) (in)	105 x 68 x 56	105 x 68 x 56	105 x 68 x 56	105 x 68 x 56
Dry Weight lb (kg)	1030 (467)	1425 (646)	1455 (660)	1640 (744)
Operating Weight lb (kg)	1250 (567)	1823 (827)	1853 (841)	2038 (924)
Engine	Tier 4	Tier 4	Interim Tier 4	Interim Tier 4
Brand	Kubota D1105	Mitsubishi S4L2	Isuzu	Isuzu
Aspiration	Natural	Natural	Natural	Natural
HP (prime @ 1800rpm) (kW)	13.5 (10.1)	22.3 (16.6)	32.1 (23.9)	32.1 (23.9)
Displacement in ³ (L)	68.53 (1.12)	107 (1.8)	134 (2.2)	134 (2.2)
Cylinders	3	4	4	4
Operating Speed (rpm)	1800	1800	1800	1800
Fuel Consumed prime gph (Lph)	0.70 (2.65)	1.3 (4.92)	1.8 (6.81)	1.8 (6.81)
Battery (12 volt)	1-12V/440 CCA	1-12V/440 CCA	1-12V/720 CCA	1-12V/720 CCA
Capacities				
Fuel Tank gal (L)	30 (114)	56 (212)	56 (212)	56 (212)
Approximate Run Time hrs	48	43	31	31
AC Distribution				
Main Breaker	40	70	100	90
Voltage Selection	N/A	N/A	N/A	3 Position Switch (lockable)
Voltage Regulation	+/-1%	+/-1%	+/-1%	+/-1%
120V - 20 amp GFCI Duplex	2	2	2	2
240V - 30 amp Twist Lock	1	2	2	2
240V - 50 amp Twist Lock	—	2	2	2
Trailer				
Number of Axles & Capacity lbs (kg)	1-2200 (998)	1-2200 (998)	1-2200 (998)	1-2200 (998)
Tire Size (in)	13	15	15	15
Brakes	N/A	N/A	N/A	N/A
Hitch – Standard	2" Ball	2" Ball	2" Ball	2" Ball

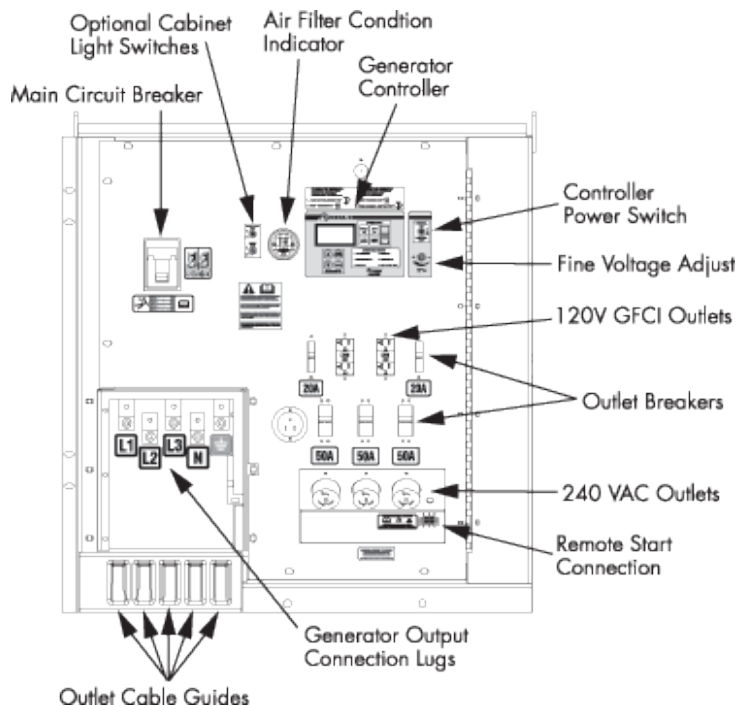
Specifications are subject to change without notice.



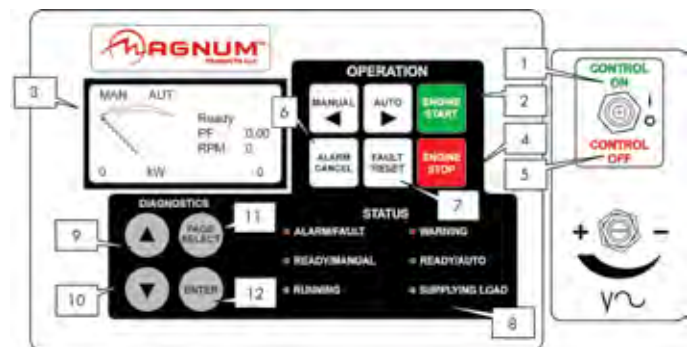
MAGNUM MOBILE GENERATORS (MMG)



ADVANCED DIGITAL CONTROLLER ENHANCED OPERATION AND DIAGNOSTIC DISPLAY GENERATOR CONTROLLER



CONTROL PANEL FEATURES



1. Control Power Switch/ON
3. LCD Display
5. Control Power Switch/OFF
9. UP
11. Page Select

2. Engine Start
4. Engine Stop
6. Alarm Cancel
8. LED's
10. DOWN
12. Enter

Delivering Reliable Power & Performance

REVOLUTIONARY FLIP-HOOD DESIGN

AVAILABLE MODELS : MMG 25, MMG 35, MMG 45



Flip-hood/flip-tongue Mobile Generators

Standard flip-hood design provides easy open access flip-hoods for routine maintenance and full service, and a large control panel access with centralized location of all electrical connections and wiring. The flip-tongue design permits cross trailer loading for truckload savings as well as added theft prevention on site.

(Four door enclosure is available, call factory for details)

MMG 130 (SHOWN)

ALSO AVAILABLE: MMG 75, MMG 100, MMG 120, MMG 150, MMG 175, MMG 185, MMG 205, MMG 235, MMG 320, MMG 330, MMG 405, MMG 465

Reliable

- Advanced microprocessor
- Voltage regulation within +/- 1%
- Models with full load run times in excess of 24 hours
- Air filter condition indicator
- Low coolant shutdown
- 2 year 2,000 hour warranty

Available Options

- Engine Heater *
- 60/40 Coolant *
- Clutch Fan *
- SUPERSTART Generator
- Battery Disconnect
- Battery Charger
- Buck Transformer Kit
- 4 Position Phase Switch
- Analog Gauges
- Cam Locks
- Heated Fuel Filter *
- Adjustable Air Ducting *
- Double Wall Fuel Tank
- 36 Hour Full-Load Fuel Tank
- Liquid Containment *
- Interior Cabinet Light
- Control Panel Light
- Hitch – 2 5/16" Ball or 3" Ring
- Brakes – Electric
- Tandem Axle Trailers

Tough

- Aluminum, lockable enclosure
- Steel skid frame and trailer
- Durable industrial powder coat finish
- Stainless steel exterior hardware

Easy to Use

- Voltage selector switch
- Multiple convenience outlets
- External, lockable fuel cap
- Automatic remote start
- Detachable generator-set and trailer
- Fuel tank integrated into generator-set

Assured Protection

- Lockable control box door with diagnostic window
- Lockable lug box with safety switch
 - Trips main breaker when lug door is open
 - Disables voltage regulator and drops voltage to harmless levels
- Guarded cable inlet to prevent access by hand
- External emergency stop switch trips main breaker and shuts down engine
- Lockable exterior cabinet doors and fuel fill
- Individual breakers on convenience outlets
- Lockable phase switch
- Link Board guard with safety switch (MMG235 & larger)
 - Trips main breaker when lug door is open
 - Disables voltage regulator and drops voltage to harmless levels

* COLD WEATHER PACKAGE OPTIONS – Call Factory for Details

FLIP-HOOD DESIGN STANDARD

MODEL MMG 25 (SHOWN)

ALSO AVAILABLE: MMG 35, MMG 45



MODEL MMG 75

PATENTED FRONT FLIP-HOOD DESIGN



MAGNUM MOBILE GENERATOR SPECIFICATIONS

Model	MMG 25	MMG 35	MMG 45	MMG 75	MMG 100 IT4	MMG 100 T3
Output						
3 Phase - Standby (kW/kVA)	20 / 25	29 / 36	35 / 44	69 / 86	86 / 107	86 / 107
Amps (480/208 V)	30 / 69	43 / 100	53 / 122	103 / 239	129 / 297	129 / 297
3 Phase - Prime (kW/kVA)	18 / 23	26 / 33	33 / 41	62 / 77	78 / 98	78 / 98
Amps (480/208 V)	28 / 64	40 / 92	49 / 114	93 / 214	118 / 272	118 / 272
1 Phase - Standby (kW/kVA)	16 / 16	26 / 26	33 / 33	60 / 60	75 / 75	75 / 75
Amps (240V)	67	108	138	250	313	313
1 Phase - Prime (kW/kVA)	15 / 15	25 / 25	30 / 30	56 / 56	71 / 71	71 / 71
Amps	63	104	125	233	296	296
AC Voltage 1-phase	120, 139, 208, 220, 240, 277					
AC Voltage 3-phase	208, 220, 440, 480					
Frequency Hz	60	60	60	60	60	60
Power Factor	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1.0 (1Ø), .8 (3Ø)	1.0 (1Ø), .8 (3Ø)
Generator (Brand/Type/Insulation)	Marathon / Brushless / H		Marathon / Brushless / H		Marathon / Brushless / H	
Sound (dB(A) 23 Feet @ prime)	66	68	68	68	68	68
CSA Listed	Yes	Yes	Yes	Yes	Pending	Yes
Size and Weight						
Skid Mounted (l x w x h) in	95 x 35 x 52	95 x 35 x 52	95 x 35 x 52	101 x 40 x 68	101 x 40 x 68	96 x 38 x 62
Dry Weight lb (kg)	2048 (929)	2020 (916)	2329 (1056)	3530 (1600)	TBD	3402 (1543)
Operating Weight lb (kg)	2517 (1142)	2475 (1123)	3082 (1398)	4700 (2131)	TBD	4361 (1978)
Trailer Mounted (l x w x h) (in)	150 x 57 x 67	150 x 57 x 67	150 x 57 x 67	166 x 62 x 84	TBD	158 x 60 x 84
Dry Weight lb (kg)	2289 (1038)	2540 (1152)	2853 (1294)	4240 (1923)	TBD	4104 (1860)
Operating Weight lb (kg)	2758 (1251)	2990 (1356)	3606 (1636)	5410 (2454)	TBD	5062 (2296)
Engine	Interim Tier 4	Interim Tier 4	Interim Tier 4	Interim Tier 4	Interim Tier 4	Tier 3 Flex
Brand	Isuzu	John Deere	Kubota	John Deere	John Deere	John Deere
Model #	4LE1NYGV	PE4024TF281	V3600-TE3BG	PE4045HFG92	PE4045HFG92	PE4045HF285
Aspiration	Natural	Turbo	Turbo	Turbo	Turbo	Turbo
HP (prime @ 1800rpm) (kW)	32 (24)	43 (32)	53 (39)	97 (72)	121 (90)	122 (91)
Displacement in ³ (L)	134 (2.2)	149 (2.4)	221 (3.6)	274 (4.5)	275 (4.5)	274 (4.5)
Cylinders	4	4	4	4	4	4
Operating Speed (rpm)	1800	1800	1800	1800	1800	1800
Fuel Consumed prime gph (Lph)	1.8 (6.8)	2.6 (9.8)	3.0 (11.4)	4.78 (18.1)	6.2 (23.5)	6.2 (23.5)
Battery (12 volt)	1 - 12V/720 CCA	1 - 12V/720 CCA	1 - 12V/720 CCA	1 - 12V/720 CCA	1 - 12V/720 CCA	1 - 12V/720 CCA
Capacities						
Fuel Tank gal (L)	106 (401)	106 (401)	106 (401)	165 (625)	TBD	147 (556)
Approximate Run Time hrs	45.4	36.9	31	31	TBD	22
AC Distribution						
Main Breaker	90	125	200	300	400	400
Voltage Selection	3 Position Switch (Lockable)					
Voltage Regulation	+/- 1%	+/-1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
120V - 20 amp GFCI Duplex	2	2	2	2	2	2
240V - 30 amp Twist Lock	NA	NA	NA	NA	NA	NA
240V - 50 amp Twist Lock	2	2	2	3	3	3
Trailer						
Number of Axles & Capacity lbs (kg)	1 - 3500 (1588)	1 - 3500 (1588)	1 - 5000 (2268)	1 - 6000 (2722)	1 - 6000 (2722)	1 - 6000 (2722)
Tire Size (in)	15	15	15	15	15	15
Brakes	None	Surge	Surge	Surge	Surge	Surge
Hitch – Standard	2" Ball	2" Ball	2" Ball	3" Ring	3" Ring	3" Ring



Specifications are subject to change without notice.

SPECIFICATIONS FOR THE FOUR DOOR ENCLOSURE DESIGN MAY VARY FROM THOSE LISTED ABOVE. CALL FACTORY FOR DETAILS

Model MMG 175



Mobile Generator Specifications

Model	MMG 120	MMG 130	MMG 150	MMG 175	MMG 185	MMG 205
Output						
3 Phase - Standby (kW/kVA)	102 / 127	107 / 134	127 / 159	153 / 191	177 / 221	174 / 217
Amps (480/208 V)	153 / 353	161 / 372	191 / 441	230 / 530	266 / 613	261 / 602
3 Phase - Prime (kW/kVA)	93 / 116	98 / 122	116 / 145	138 / 172	162 / 202	164 / 205
Amps (480/208 V)	147 / 339	149 / 339	174 / 402	207 / 477	243 / 561	247 / 569
1 Phase - Standby (kW/kVA)	91 / 91	96 / 96	114 / 114	125 / 125	151 / 151	155 / 155
Amps (240V)	379	400	475	521	629	646
1 Phase - Prime (kW/kVA)	85 / 85	90 / 90	106 / 106	120 / 120	137 / 137	142 / 142
Amps	354	375	442	500	571	592
AC Voltage 1-phase	120, 139, 208, 220, 240, 277		120, 139, 208, 220, 240, 277		120, 139, 208, 220, 240, 277	
AC Voltage 3-phase	208, 220, 440, 480		208, 220, 440, 480		208, 220, 440, 480	
Frequency Hz	60	60	60	60	60	60
Power Factor	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)	1 (1Ø), 0.8 (3Ø)
Generator (Brand/Type/Insulation)	Marathon/Brushless/H		Marathon/Brushless/H		Marathon/Brushless/H	
Sound (dB(A) 23 Feet @ prime)	68	68	68	68	68	68
CSA Listed	Yes	Pending	Yes	Yes	Pending	Pending
Size and Weight						
Skid Mounted (l x w x h) in	132 x 50 x 77	144 x 50 x 77	132 x 50 x 77	144 x 50 x 77	132 x 50 x 77	144 x 50 x 77
Dry Weight lb (kg)	5429 (2463)	5444 (2469)	5944 (2696)	6604 (2996)	6510 (2953)	6624 (3005)
Operating Weight lb (kg)	7914 (3590)	7929 (3596)	8500 (3856)	9032 (4097)	9100 (4128)	9052 (4106)
Trailer Mounted (l x w x h) (in)	210 x 86 x 93	210 x 86 x 93	210 x 86 x 93	210 x 86 x 93	210 x 86 x 93	210 x 86 x 93
Dry Weight lb (kg)	6825 (3096)	6840 (3102)	7340 (3329)	8000 (3629)	8450 (3833)	8020 (3638)
Operating Weight lb (kg)	9310 (4223)	9325 (4230)	9896 (4489)	10428 (4730)	11040 (5008)	10448 (4739)
Engine	Tier 3 Flex	Interim Tier 4	Tier 3 Flex	Interim Tier 4	Tier 3 Flex	Interim Tier 4
Brand	John Deere	John Deere	John Deere	John Deere	John Deere	John Deere
Model #	PE4045HF285	PE4045HFG93	PE4045HF285	PE6068HFG94	PE6068HF485	PE6068HFG95
Aspiration	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo
HP (prime @ 1800rpm) (kW)	144 (107)	152 (113)	179 (134)	217 (162)	258 (193)	252 (188)
Displacement in ³ (L)	275 (4.5)	275 (4.5)	275 (4.5)	415 (6.8)	415 (6.8)	415 (6.8)
Cylinders	4	4	4	6	6	6
Speed (rpm)	1800	1800	1800	1800	1800	1800
Fuel Consumed prime gph (Lph)	7.4 (28)	7.4 (28.0)	8.5 (32.3)	10.9 (41.3)	12.3 (46.6)	12.8 (48.5)
Battery (12 volt)	1-12V/1000 CCA	1-12V/1000CCA	1-12V/1000 CCA	1-12V/1000 CCA	1-12V/1000 CCA	1-12V/1000 CCA
Capacities						
Fuel Tank gal (L)	342 (1295)	342 (1295)	342 (1295)	342 (1295)	342 (1295)	342 (1295)
Approximate Run Time hrs	44	44	36	29	25	24
AC Distribution						
Main Breaker	450	450	600	700	700	800
Voltage Selection	3 Position Switch (lockable)		3 Position Switch (lockable)		3 Position Switch (lockable)	
Voltage Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
120V - 20 amp GFCI Duplex	2	2	2	2	2	2
240V - 30 amp Twist Lock	NA	NA	NA	NA	NA	NA
240V - 50 amp Twist Lock	3	3	3	3	3	3
Trailer						
# of Axles & Capacity lbs (kg)	2 - 6000 (2722)	2 - 6000 (2722)	2 - 6000 (2722)	2 - 6000 (2722)	2 - 7000 (3175)	2 - 6000 (2722)
Tire Size (in)	16	16	16	16	16	16
Brakes	Surge	Surge	Surge	Surge	Surge	Surge
Hitch - Standard	3" Ring	3" Ring	3" Ring	3" Ring	3" Ring	3" Ring

Specifications or designs are subject to change without notice.

Limited availability of Tier 3 Flex engines – Call for Details



Model MMG 330

Mobile Generator Specifications

Model	MMG 235	MMG 320	MMG 330	MMG 405	MMG 465
Output					
3 Phase - Standby (kW/kVA)	204 / 255	278 / 348	290 / 363	358 / 447	408 / 510
Amps (480/208 V)	307 / 708	419 / 966	437 / 1008	538 / 1241	613 / 1416
3 Phase - Prime (kW/kVA)	186 / 233	256 / 320	263 / 329	326 / 408	373 / 466
Amps (480/208 V)	280 / 647	385 / 888	396 / 913	491 / 1132	561 / 1293
1 Phase - Standby (kW/kVA)	N/A	NA	NA	NA	N/A
Amps (240V)	N/A	NA	NA	NA	N/A
1 Phase - Prime (kW/kVA)	N/A	NA	NA	NA	N/A
Amps	N/A	NA	NA	NA	N/A
AC Voltage 1-phase	NA	NA	NA	NA	N/A
AC Voltage 3-phase	208, 480	208, 480	208, 480	208, 480	208/480
Frequency Hz	60	60	60	60	60
Power Factor	0.8 (3Ø)	0.8 (3Ø)	0.8 (3 Ø)	0.8 (3Ø)	0.8 (3Ø)
Generator (Brand/Type/Insulation)	Marathon/Brushless/H		Marathon/Brushless/H		Marathon/Brushless/H
Sound (dB(A) 23 Feet @ prime)	68	68	68	68	68
CSA Listed	Yes	Yes	Pending	Yes	Pending
Size and Weight					
Skid Mounted (l x w x h) in	132 x 50 x 77	156 x 60 x 90	171 x 60 x 90	175 x 60 x 96	175 x 60 x 96
Dry Weight lb (kg)	6510 (2953)	8039 (3646)	9447 (4285)	12680 (5752)	12690 (5756)
Operating Weight lb (kg)	9100 (4128)	11499 (5215)	12907 (5854)	17115 (7763)	17125 (7768)
Trailer Mounted (l x w x h) (in)	210 x 86 x 93	230 x 102 x 110	230 x 102 x 110	250 x 102 x 116	250 x 102 x 116
Dry Weight lb (kg)	8450 (3833)	10912 (4949)	12320 (5588)	15930 (7226)	15940 (7230)
Operating Weight lb (kg)	11040 (5008)	14372 (6519)	15780 (7158)	20365 (9237)	20375 (9241)
Engine	Tier 3 Flex	Tier 3 Flex	Interim Tier 4	Tier 3 Flex	Tier 3 Flex
Brand	John Deere	John Deere	John Deere	John Deere	John Deere
Model #	PE6068HF485	RG6090HF485	PE6090HFG95	RG6135HF485	RG6135HF485
Aspiration	Turbo	Turbo	Turbo	Turbo	Turbo
HP (prime @ 1800rpm) (kW)	286 (213)	384 (287)	396 (295)	489 (365)	561 (419)
Displacement in ³ (L)	415 (6.8)	548 (9)	549 (9.0)	824 (13.5)	824 (13.5)
Cylinders	6	6	6	6	6
Speed (rpm)	1800	1800	1800	1800	1800
Fuel Consumed prime gph (Lph)	15.2 (57.5)	17.9 (67.8)	18.7 (70.8)	21.1 (79.9)	26.3 (99.6)
Battery (12 volt)	1-12V/1000 CCA	2-12V/1000 CCA	2-12V/1000 CCA	24V (2-12V)/1000 CCA	
Capacities					
Fuel Tank gal (L)	342 (1295)	459 (1738)	459 (1738)	616 (2332)	616 (2332)
Approximate Run Time hrs	21	24	23	29	29
AC Distribution					
Main Breaker	800	1200	1200	1600	1600
Voltage Selection	Link/Reconnect Board	Link/Reconnect Board	Link/Reconnect Board	Link/Reconnect Board	Link/Reconnect Board
Voltage Regulation	+/-1%	+/- 1%	+/-1%	+/-1%	+/-1%
120V - 20 amp GFCI Duplex	2	2	2	2	2
240V - 30 amp Twist Lock	NA	NA	NA	NA	NA
240V - 50 amp Twist Lock	3	3	3	3	3
Trailer					
# of Axles & Capacity lbs (kg)	2 - 7000 (3175)	2 - 8000 (3629)	2 - 8000 (3629)	3 - 8000 (3629)	3 - 8000 (3629)
Tire Size (in)	16	17.5	17.5	17.5	17.5
Brakes	Surge	Electric	Electric	Electric	Electric
Hitch – Standard	3" Ring	3" Ring	3" Ring	3" Ring	3" Ring

Understanding Interim Tier 4 Emissions Compliance Without Sacrificing Performance

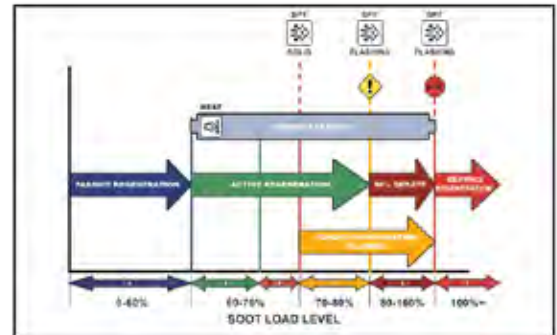
Why the change? New federal emissions regulations require a 90% reduction in particulate matter and a 50% drop in nitrogen oxides.

How do new engines meet these stringent requirements? Engines 75hp and above use a catalyzed exhaust filter that contains a Diesel Oxidation Catalyst (DOC) and a Diesel Particulate Filter (DPF). Under normal operating conditions, the DOC reacts with exhaust gases to reduce carbon monoxide, hydrocarbons, and some particulate matter. The downstream DPF forces exhaust gases to flow through porous channel walls, trapping and holding the remaining particulate matter (soot). The trapped particles are eventually oxidized through a cleaning process called Regeneration.

What is Passive Regeneration? Passive Regeneration is a natural cleaning process that occurs when the temperature, load and speed produce exhaust heat that oxidizes the particulate matter in the DPF under normal operating conditions and turns it to ash.

What is Active Regeneration? If Passive Regeneration cannot be achieved due to low temperature, load, or speed, the engine will automatically adjust to increase the exhaust temperature to oxidize the particulate matter. This is done by tuning the amount of air intake, adjusting injection timing, and injecting a small quantity of fuel into the exhaust stream. An Active Regeneration usually takes about a half an hour to complete.

Regeneration Operator Interface



What does the inhibit switch do? The inhibit switch prevents the engine from performing an Active Regeneration. The switch should only be used for special locations where high exhaust temperatures would be a danger. For most applications the switch should be left in the auto Position.

What is a Forced Regeneration? After operating with the inhibit switch on it may be necessary to manually tell the engine to perform a regeneration. Holding the inhibit switch up for 5 seconds will force an Active Regeneration to occur.

How long will a DPF last? John Deere DPF filters are designed to operate for at least 5000 hours before needing removal for cleaning out accumulated ash. Some field units have experienced 7000 hours or more before requiring service.

EPA Compliance Without Sacrificing Performance

Magnum Mobile Generators meet the new federal emissions regulations without sacrificing power and reliable performance. Powered by EPA compliant Interim Tier 4 engines; the mobile generators 75hp and above use a catalyzed exhaust filter containing a Diesel Oxidation Catalyst (DOC) and a Diesel Particulate Filter (DPF) to reduce carbon monoxide, hydrocarbons and particulate matter.

Diesel Particulate Filter (DPF) System

Catalyzed Exhaust Filter

Diesel Particulate Filter (DPF)

Remaining particulate matter entrapped in the DPF are oxidized through a continuous cleaning process called passive regeneration



Diesel Oxidation Catalyst (DOC)

is part of the DPF system where exhaust gases are transformed to reduce carbon monoxide, hydrocarbons, and some particulate matter

Diesel exhaust with heavy particulate matter goes in

Cleaner diesel exhaust with lower particulate matter comes out





MAGNUM GENERATORS

Since Magnum was formed in 1988, we have supplied reliable, high quality light and heavy-duty mobile generators for a variety of industries and specialties including: road and commercial construction, construction rental, utility and electrical, oil, gas and mining, government and military, tele-communications, and special events. Magnum generators are built and designed for durable performance to meet any conditions and extreme challenges. Whatever your needs are, Magnum offers solutions to fit the requirements for the application and function of your equipment, available to deliver when and where you need it.

Road and Commercial Construction

Magnum mobile generators can be found powering road and commercial construction sites with around the clock performance, supporting contractor schedules to meet critical deadlines.

Oil, Gas & Mining Operations

Magnum products provide prime power and light for remote work sites such as offshore oil and sands drilling sites, and pit-mining locations around the world.

Disaster Relief

Magnum products are inventoried and readily available to ship on a moment's notice to assist in relief efforts for natural or unnatural disasters.

Security & Military Actions

The United States Government relies on Magnum equipment to power and light critical areas like the Pentagon, U.S Borders, and military bases both here and abroad. Magnum provides power and light solutions that continue to serve our troops on every continent in the world.

Specialized Applications

Magnum offers flexible solutions to unique applications designing customer products such as generators for space shuttle support, fire and security and special mobile needs for auxiliary and prime power for business and industry.

For more information:

Call: 1-800-926-9768 or 920-361-4442 Fax: 920-361-2214 or Visit: www.M-P-LLC.com

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