

MG POWER

DIESEL GENERATOR SET

*Your Reliable Partner
In Power*



Alternator

STAMFORD[®]



50 Hz
1500rpm
9KVA-2000KVA

60 Hz
1800rpm
10KVA-1500KVA



ISO 9001: 2015
CERTIFIED COMPANY



General Generating Set Specification

Naturally aspirated or turbo-charged, water-cooled, multi-cylinder injection diesel engine with electronic governing (electronic is optional on some ranges, consult your sales engineer for more advice). All engines supplied with replaceable elements for oil, fuel and air-filter assemblies.

We utilize the modern technology of brushless self-exciting and self-regulating alternators. Typically, the alternators are built in accordance with BS 5000, VDE 0530, IEC 34, and NEMA regulations. We offer alternators to meet the full classification range and we adopt a technically preferred close-coupled arrangement. We offer various alternator brands in our range, Welland Power Alternators as a preference, followed by Mecc Alte, Newage Stamford, Marlon and Leroy Somer.

Manual Control Panel

- A vibration-isolated sheet-steel panel mounted on the generating set contains the following instrumentation, which depending on the options chosen may be in analogue or digital form.
- AC ammeters
- Acc voltmeter and selector switch
- Frequency meter
- Hours-run counter
- Deep Sea Electronics start/run/stop key switch module with LED indication for battery charge and indication with shutdown for Low oil pressure, high engine temperature and over-speed.
- Fuses, terminations, relays and transformers as appropriate.
- Suitably rated moulded-case three-pole circuit breaker.
- Oil Pressure, Water Temperature and battery condition monitor fitted as standard.

Fuel Tank

All of our generating sets, up to and including prime rated 500KVA, come as standard with a base fuel tank. Our fuel tanks are specially constructed, to our own custom design, Fabricated from high quality welded steel plate, they also provide the base for the generating set, providing additional strength for the fuel tank, and additional stability for the generating set. As standard it includes fitted fill, vent, feed, return lines and a contents gauge. A free-standing bulk tank can be supplied if required.

Finish & Quality Control

All sets are finished according to individual set specifications. For more details on the set finish consult your sales engineer. Consideration will be given to match clients' won colour scheme, but depending on range may incur additional cost. Manufacturers' instruction manuals for both engine and alternator wiring diagrams, heavy-duty compressed rubber anti-vibration mounts and industrial exhaust silencer(s) with a one-metre flexible connector accompany each generating set on dispatch. All Sets are custom-built in our own factory. Prior to despatch each machine is subjected to rigorous and comprehensive factory inspection procedures, Test certificated will be supplied on request only.

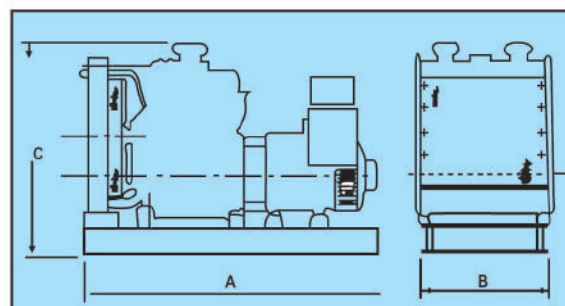
Typical Optional Extras

- | | |
|--|---|
| <ul style="list-style-type: none"> ○ Automatic mains failure control systems ○ Synchronising and load sharing ○ Remote monitoring systems ○ Acoustic/weather-protection enclosures | <ul style="list-style-type: none"> ○ ISO containerised sets ○ Mobile trailer units ○ CE Approval and Certification |
|--|---|

AUTOMATIC MAINS FAILURE SPECIFICATION 3PHASE (SPLIT) MONITORING PANEL	
<ul style="list-style-type: none"> ○ Ammeters ○ Current transformers ○ Voltmeter ○ Voltmeter selector ○ Hour Counter ○ Frequency meter ○ Oil pressure gauge ○ Water temperature gauge 	<ul style="list-style-type: none"> ○ Battery conditioner meter ○ Set of instrument fuses ○ 3 Pole circuit breaker ○ Set of load terminals ○ Set of AVM (O/M panels only) ○ Deep Sea Electronics Auto-start module ○ Fail indicator (Three attempts to start)

Automatic Transfer Switch Specification

- Pair of 4 pole contactors mechanically and electrically interlocked rated for the set output.
- Mains detector (Adjustable)
- Set of control fuses
- Mains available indicator
- Mains on load indicator
- Generator available indicator
- Generator on load indicator
- Set of load terminals
- Automatic mains battery charger is enclosed as standard



Panels above 800AMP come in one complete panel for floor mounting. They have pair of four pole circuit breakers mechanically and electrically interlocked which replaces the 3-pole circuit breaker and Contactors.

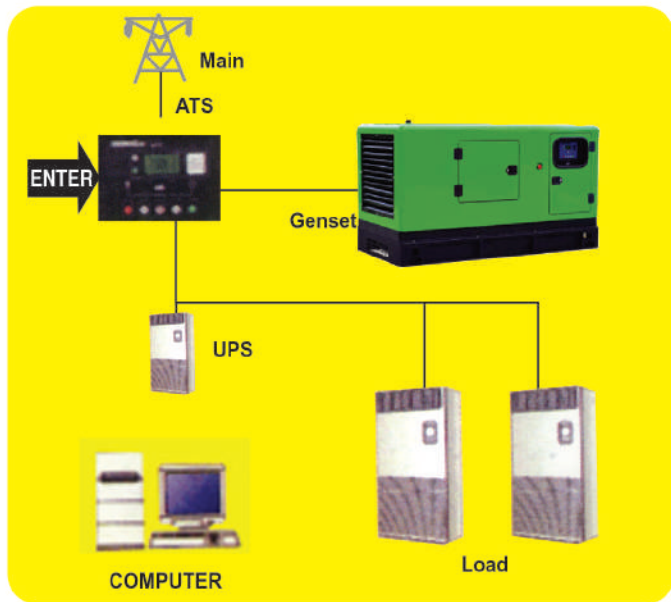
GENSET MODEL	50HZ 400/230V		60HZ 440/254		ENGINE SPECIFICATIONS			FUELCONS L/HR			APPROXIMATE DIMENSIONS	WEIGHT KG
	KVA		KVA		MODEL	TYPE	CYL	100%	75%	50%	OPEN TYPE	
	PRIME	STANDBY	PRIME	STANDBY							L X W X H m	
MGP 9	9.0	10.0	10.0	11.0	403A-11G1	Nat/asp	3 Inline	3	2.3	1.7	1.6 x .63x1.24	409
MGP 13	13	15	15.8	17.5	403A-15G1	Nat/asp	3 Inline	3.7	2.8	2	1.6 x .63x1.24	418
MGP 20	20	22	24	27	404A-22G	Nat/asp	4 Inline	6.2	4.8	3.5	1.6 x .63x1.24	605
MGP 30	30	33	35	38	1103A-33G	Nat/asp	3 Inline	7.1	5.4	3.9	1.6 x .63x1.24	672
MGP 45	45	50	53	59	1103-33TG1	Nat/asp	3 Inline	10.7	8.2	5.7	1.8 x .64x1.35	776
MGP 60	60	70	68	75	1103-33TG2	Turbo	3 Inline	13.9	10.4	7.2	1.8 x .64x1.34	850
MGP 65	65	72	76	84	1104A-44TG1	Turbo	4 Inline	14.8	11.2	8	2.1 x .64x1.35	928
MGP 80	80	88	90	100	1104A-44TG2	Turbo	4 Inline	18.7	14	9.7	2.1x. 64x1.35	952
MGP 100	100	110	114	127	1104C-44TAG2	Turbo	6 Inline	22.6	17.1	11.2	2.1 x .69x1.45	1077
MGP 135	135	150	152	169	1106A-70TG1	Turbo	6 Inline	31.5	23.6	15.7	2.3x. 79x1.6	1427
MGP 150	150	165	169	188	1106A-70TG2	Turbo	6 Inline	41	30.7	20.5	2.3x. 79x1.6	1427
MGP 180	180	200	197	219	1106A-70TAG3	Turbo	6 Inline	40.2	31	20.5	2.1x. 79x1.75	1525
MGP 200	200	220	225	248	1106A-E70TAG4	Turbo	6 Inline	43.2	34	23	2.5x. 85x1.75	1660
MGP 250	250	275	280	320	1206A-70TTAG3	Turbo	6 Inline	45	36	25	2.6x.85x1.75	2060
MGP 250	250	275	280	320	1506A-E88TAG3	Turbo	6 Inline	45	36	25	2.6x.85x1.75	2060
MGP 300	300	330	338	375	1506A-E88TAG5	Turbo	6 Inline	61	47	33	3.0x.1.65x1.75	2060
MGP 350	350	385	390	429	2206A-E13TAG2	Turbo	6 Inline	71	54	37	3.2x1. 2x1. 75	2590
MGP 400	400	440	445	490	2206A-E13TAG3	Turbo	6 Inline	81	62	42	3.2x1. 2x1.75	2810
MGP 450	450	500	513	563	2506A-E13TAG1	Turbo	6 Inline	95	72	50	3.5x1. 25x1.75	3495
MGP 500	500	550	565	NA	2506A-E15TAG2	Turbo	6 Inline	100	76	53	3.5x1. 25x1. 97	3660
MGP 600	600	660	675	NA	2806A-E18TAG1A	Turbo	6 Inline	123	90	61	3.7x1. 41x2.15	4350
MGP 660	660	725	710	790	2806A-E18TAG2	Turbo	6 Inline	132	97	66	3.7x1. 41x1. 97	4350
MGP 720	720	792	795	NA	4006-23TAG2A	Turbo	6 Inline	150.7	116.2	79.7	3.7x1. 41x2. 37	6241
MGP 800	800	880	850	NA	4006-23TAG3A	Turbo	6 Inline	172	130	90	3.7x1. 41x2.37	6247
MGP 910	910	1002	950	N/D	4008TAG1A	Turbo	8 Inline	195	143	98	5.0x1.87x2.37	7505
MGP 1000	1000	1100	1025	1125	4008TAG2A	Turbo	8 Inline	226	163	109	5.0x1.87x2.37	7625
MGP 1250	1250	1385	1390	1450	4012-46 TWG2A	Turbo	12 Vee	259	196	143	5.1x1.9x2.54	9360
MGP 1500	1500	1650	1520	1675	4012-46 TAG2A	Turbo	12 Vee	301	237	162	5.1x2.05x2.54	10080
MGP 1700	1700	1870			4016TAG2	Turbo	16 Vee	370	275	187	5.8x2. 3x3.75	12635
MGP 2000	2000	2200			4016-61 TRG2A	Turbo	16 Vee	378	283.5	189	5.8x2. 25x2.78	13695

Genset Model	Engine Model	50Hz, 1500rpm 400V, p.f 0.8 (lag)				Aspir- ation	Cylinders L=Inline V=VEE	Displace- ment (L)	Fuel Consumption (L/H)			Genset Dimension LxWxH (mm)	Weight kg
		Prime		Standby					100%	75%	50%		
		KW	KVA	KW	KVA								
MGC 20	4B3.9-G2	20	25	22	27.5	Naturary	4L	3.9	5	3.75	2.5	1750x850x1250	876
MGC 30	4BT3.9-G2	30	37.5	33	41.25	Turbo	4L	3.9	6	4.5	3	1750x850x1250	893
MGC 48	4BTA3.9-G2	48	60	53	66	Turbo	4L	3.9	12	9	6	1850x850x1250	930
MGC 68	6BT5.9-G2	68	85	75	94	Turbo	6L	5.9	15	11.25	7.5	2304x950x1305	1450
MGC 80	6BT5.9-G2	80	100	88	110	Turbo	6L	5.9	17.76	13.32	8.88	2304x950x1305	1460
MGC 100	6BTA5.9-G2	100	125	110	137.5	Turbo	6L	5.9	23.8	17.85	11.9	2304x950x1305	1500
MGC 104	6BTAA5.9-G2	104	130	115.5	150	Turbo	6L	5.9	29	21.75	14.5	2304x950x1305	1550
MGC 140	6CTA8.3-G2	140	175	154	19.25	Turbo	6L	8.3	37	27.75	18.5	2500x950x1478	1950
MGC 160	6CTAA8.3-G2	160	200	176	220	Turbo	6L	8.3	41.5	31.12	20.75	2762x1151x1500	2050
MGC 200	6LTAA8.9-G2	200	250	220	275	Turbo	6L	8.9	44	33	22	2980x1065x1700	2230
MGC 250	NTA855-G1B	250	313	275	344	Turbo	6L	14	60	45	30	3169x1065x1700	3150
MGC 280	NTA855-G2A	280	350	310	388	Turbo	6L	14	73	54.75	36.5	3169x1065x1700	3150
MGC 300	NTA855-G7	300	375	330	413	Turbo	6L	14	78	58.5	39	3169x1065x1700	3300
MGC 360	KTA19-G3	360	450	400	500	Turbo	6L	19	98	73.5	49	3600x1300x1893	4083
MGC 400	KTA19-G4	400	500	440	550	Turbo	6L	19	105	78.75	52.5	3860x1590x1906	4449
MGC 440	KTAA19-G5	440	550	484	605	Turbo	6L	18.9	113	91	56.5	4900x1830x2500	5800
MGC 480	KT19-G8	480	600	528	660	Turbo	6L	18.9	128	96	64	4900x1830x2500	5850
MGC 500	KTAA19-G6A	500	625	550	688	Turbo	6L	18.9	127.8	95.2	63.9	4800x1830x2500	5700
MGC 520	SSK19-G3	520	650	572	715	Turbo	6L	19	114	85.5	57	4800x1830x2500	5900
MGC 600	KTA38-G2	600	750	660	825	Turbo	12V	37.8	150	112.5	75	4555x1627x2444	7794
MGC 720	KTA38-G2A	720	900	792	990	Turbo	12V	37.8	178	133.5	89	4550x1900x2444	8017
MGC 800	KTA38-G5	800	1000	880	1100	Turbo	12V	37.8	185	138.75	92.2	4550x1900x2444	8600
MGC 1000	KTA50-G3	1000	1250	1100	1375	Turbo	16V	50.3	250	187.5	125	5319x1920x2520	9971
MGC 1200	KTA50-G8	1200	1500	1320	1650	Turbo	16V	50.3	299	224.25	149.5	5319x2280x2542	10582
MGC 1500	QSK60G3	1500	1875	1650	2062	Turbo	16V	60.2	320	240	160	6175x2286x2537	14649
MGC 1760	QSK60G4	1760	2200	1936	2420	Turbo	16V	60.2	340	255	170	6175x2286x2537	14863
MGC 1800	QSK60G8	1800	2250	1980	2500	Turbo	16V	60.2	360	270	180	6175x2286x2537	15200

Note :

1. Model Numbers (MGP& MGC) are apply only to 50Hz prime rated sets, standby sets are MGPS & MGCS
2. All ratings are in accordance with ISO 8528-1 and ISO 3046, BS 5514 and DIN 6271 conditions.
3. All ratings are based on 380-415V, 3ph, 50Hz. And power factor of 0.8, engine manufacturers data at NTP ambient conditions
4. Fuel consumption figures are based on 100% & 50% prime ratings in accordance with engine manufacturers data.
5. Prime rating allows continuous operation with a 10% overload for anyone hour in twelve as standby rating.
6. All Data is given good faith but is subject to change based upon our technical improvements or those notified by the major component suppliers

Auto Synchronizing Panel with ATS



Multi set Auto Synchron. Panel with ATS

 **Perkins**
UK



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