

GERMANA GENERATORS





Open Frame Type Air-Cooled Diesel Generator

- Brushless alternator eliminates time consuming maintenance.
- Condenser voltage regulator ensures stable voltage output.
- 12 volt D.C. auxiliary charging (car/boat batteries)

We can manufacture this generator at the voltage and frequency requested by our customers.

Model	GENERATOR							ENGINE		UNIT			
	TYPE	Frequency (Hz)	Continuous AC Output (kW)	Max. AC Output (kW)	Voltage (V)	DC Output (V/A)	Power factor (%)	Circuit Breakers	Model	Governor system	DIM LxWxH (mm)	N.W (kg)	Noise level at 7m (dBA)
MTD2500C	Brushless, self-excited 3 phase engine prime	50	2.0	2.2	110, 120, 230, 240, 240, 110/208, 110/208, 110/208, 110/208, 110/208	12-13	100	No fuse circuit breakers	TM170G	Centrifugal weight system	610x470x110	123	79
MTD2500CL													
MTD2500CLE													
MTD2500CK		60	2.2	2.5									
MTD2500CCL													
MTD2500CLE													
MTD4000C		5.0	3.0	3.3									
MTD4000CL													
MTD4000CLE													
MTD4000CK		6.0	3.3	3.6									
MTD4000CCL													
MTD4000CLE													
MTD5500C	50	4.2	4.6										
MTD5500CL													
MTD5500CLE													
MTD5500CK	50	4.7	5.1										
MTD5500CCL													
MTD5500CLE													



Gasoline Engine Generating Sets

These generators are the whispering-level power set for gardening, camping, service vehicles and emergency power-supply

- Attains a noise level, which remains below the noise intensity of LWA90.
- 110V, 120V, and 230V models.
- Large-Volume tank capacity
- Compact, space-saving housing configuration.

We can manufacture this generator at the voltage and frequency requested by our customers.

Model	Generator Frequency (Hz)	Generator Rated Power (W)	Generator Voltage (V)	Generator Rated Current (A)	Generator Run Time (hrs)
MTG-650 (Handle)	50	450	220	2	8
MTG-650 (Handle)	60	550	120	4.6	6.5
MTG-950 (Handle)	50	650	220	3	5.8
MTG-950 (Handle)	60	800	120	6.7	4.8
MTG-1700	50	1200	220	5.5	15
MTG-1700	60	1500	120	11.47	12
MTG-2700	50	2000	220	9.1	10
MTG-2700	60	2300	120	19.2	8.2
MTG-4700	50	3500	220	15.9	10
MTG-4700	60	4000	120	33.3	8.2
MTG-6700	50	5000	220	22.7	8
MTG-6700	60	6000	120	50	6.6

GF1 Diesel Generating Sets

- Voltage steady-state regulation $\pm 1\%$ fluctuation ratio 1.5% transient-state regulation -15~20% steady time 5s Frequency steady-state regulation 5% fluctuation ratio 1.5% transient-regulation $\pm 1\%$ steady time 5s
- The noise is no more than 85db(a). Fuel consumption < 2.5kg/kw.h.
- Engine - water cooled • V-belt coupled • Anti-shock pad

We can manufacture this generator at the voltage and frequency requested by our customers.

DIESEL ENGINE							ALTERNATOR						GEN-SETS			
Sets Model	Models	Starting System	Fuel Consumption	Type	Cooling Type	Rated Speed	Models	Rated Freq. (Hz)	Rated Voltage (V)	Rated Current (A)	Rated Output (KW)	Power Factor	Type	Dimensions (mm)	Net Weight (kg)	
GF1-3KW	S175	Manual / Electric Start	270	Horizontal Single-Cylinder Four-Stroke, Water-Cooled	Closed Circulating Cooling (Condenser)	1500 / 1800	STC-3 (ST-3)	50/60	400/230	5.4(13/25)	3	0.8 LAG (1.0)	Triple Harmonic, 3Phase (Single-Phase)	1050x500x720	170	
GF1-5KW	S195		250				STC-5 (ST-5)			9.2(1.7 / 43.5)				5	1320x650x860	320
GF1-8KW	S1100		250				STC-8 (ST-8)			14.4(3.6 / 65.2)				8	1320x650x860	350
GF1-10KW	S1105		250				STC-10 (ST-10)			18(43.5 / 87)				10	1320x650x860	360
GF1-12KW	S1110		250				STC-12 (ST-12)			21.6(52.2 / 104.3)				12	1320x650x860	380

GF2 Diesel Generating Sets



- Automatic starting control panel, this panel includes manual control panel, time relay, indicator testing button, alarm resetting button, over speed inductive switch, alarm buzzer of low-voltage battery, starting malfunction alarm.
- Automatic changing-over panel. When the electric supply ceases, the generator will start automatically. When the electric supply has resumed, the generator will halt automatically.

- Automatic diesel generating sets with intelligent performance.
- Booster, battery charger, alarm buzzer, attached inductive protection switcher.

We can manufacture this generator at the voltage and frequency requested by our customers.

Gensets Model	Rated Output (kw)	Rated Current (A)	Fuel Consumption (g/kw.h)	Starting Method	Engine Model	Dimensions (mm)	N.W. (kg)	
GF2-10KW	10	18.1	<257	12V D.C. Electric	295AD	1380x640x1000	600	
GF2-12KW	12	21.6			295AD	1380x640x1000	800	
GF2-15KW	15	27			395AD	1640x650x980	650	
GF2-20KW	20	36			495AD	1780x750x1000	750	
GF2-24KW	24	43.3			495AD	1780x750x1000	780	
GF2-30KW	30	54.1			495AZD	1820x750x1000	920	
GF2-40KW	40	72.1			4135D	2200x710x1900	1610	
GF2-50KW	50	90.2	<238	24V D.C. Electric	4135D	2280x820x1350	1750	
GF2-64KW	64	115.4			4135D	2400x850x1400	1800	
GF2-75KW	75	135.3			6135	2400x850x1400	2330	
GF2-90KW	90	162.3			6135D	3000x900x1370	2500	
GF2-100KW	100	180.3			6135AD	3000x900x1370	2650	
GF2-120KW	120	216.5			6135AZD	3000x900x1370	2800	
GF2-150KW	150	270.6			250	12V135D	3300x960x1650	3500
GF2-200KW	200	360.8			250	812V135AD	3210x1320x1920	3750
GF2-250KW	250	451			250	12V135D	3210x1320x1920	3850
GF2-300KW	300	541.2			250	W12V135AZD-1	3300x1770x1905	4300
GF2-320KW	320	577.3	228	W12V135AZL	3300x1770x1905	4350		



GF3 Diesel Generating Sets

With a compact structure and small size, it is light weight and easy to assembled or disassembled. It also has soundproof shield with an elegant appearance which reduces noise effectively. It has a famous brand name engine and an advanced generator made designs with its

own and completely sealed automatic voltage regulator (AVR). Technical parameter of low noise diesel generating sets rated voltage 400V. Rated speed 1500r/min. Rated frequency 50Hz. Rated power factor 0.8 (lagging).

- The diesel engine can be chosen by buyer.
- The voltage can be changed according to buyer's requirements.
- If there are any other special requirements, please contact us.

We can manufacture this generator at the voltage and frequency requested by our customers.

Type	Rated Output (KW)	Rated Voltage (V)	Rated Current (A)	ENGINE				ALTERNATOR					Outside Dimension (MM)			Net Weight (kg)
				Type	12H Power (KW)	Fuel Consumption (g/kw)	Starting Type	Type	Rated Power (KW)	Excitation Mode	Insulation Class	Construction Type				
GF3-3	3	230/115	32.6/65	H1178	3.7	220	ELECTRICAL STARTING (DC12/24V)	ST3-3	3	TRIPLE HARMONIC EXCITING	F	IMB35 OR IMB35 WITH FLANGE	860	680	810	155
GF3-5	5	230/115	43.5/87	H1186	5.7	225		ST3-5	5				990	720	900	185
GF3-8	8	230/115	52/104	295AD	15	245		ST-8	8				1500	700	900	700
GF3-10	10	230/115	65/130	295AD	15	245		ST-10	10				1500	700	900	700
GF3-12	12	400/230	36.1	259AD	15	245		STC-12	12				1700	800	1000	900
GF3-15	15	400/230	43.3	395AD	22	245		STC-15	15				2000	900	1040	1000
GF3-20	20	400/230	54.1	495D	28.5	235		STC-20	20				2350	950	165	1480
GF3-24	24	400/230	72.1	495AD	28.5	233		STC-24	24				2350	950	1165	1950
GF3-30	30	400/230	90.2	495AZD	28.5	233		STC-30	30				2520	50	1190	2400
GF3-40	40	400/230	135.3	4135D	60	233		STC-40	40				2860	1330	1560	2500
GF3-50	50	400/230	90.2	4135AD	60	233		TZ4-50	50				2860	1500	1660	2000
GF3-75	75	400/230	135.3	6135D	90	238		TZ4-75	75				3083	1640	1900	2500
GF3-90	90	400/230	162.4	6135AD	112.5	238	TZ4-90	90	3280	1640	1900	2800				
GF3-120	120	400/230	216.5	6135AZD	—	238	TZ4-120	120	3380	1740	1990	3200				

Single/Three Phase AC Synchronous Generators



The ST series generators are mainly designed to serve as a power generating unit of small capacity, which supply electricity for lighting purposes in ships, for house-hold electric devices in towns or villages. The generators are drip-proof, salient pole rotating field self excitation and constant voltage type. The generators are three-phase, four wire type, adopting star connection with neutral point. The rated line voltage is 400V, phase voltage 230V, Frequency 50Hz. power factor 0.8 (lag).

We can manufacture this generator at the voltage and frequency requested by our customers.

Model	Output (KW)	Current (A)		Voltage (V)		Power factor (cosφ)	Pole #	Synchronous Speed (r.p.m.)
		SC	PC	SC	PC			
ST-2	2	8.7	5.4	230	115	1.0	4	1500
ST-3	3	13	9	230	115	1.0	4	1500
ST-5	5	21.7	13.5	230	115	1.0	4	1500
ST-7.5	7.5	32.6	18.1	230	115	1.0	4	1500
ST-10	10	43.5	21.7	230	115	1.0	4	1500
ST-12	12	52.2	27.1	230	115	1.0	4	1500
ST-15	15	65.2	36.1	230	115	1.0	4	1500
ST-20	20	87	54.1	230	115	1.0	4	1500

SC=Series Connection • PC=Parallel Connection

Model	Output (KW)	Output (KVA)	Current (A)	Pole #	Synchronous Speed (r.p.m.)
STC-5	5	6.3	9	4	1500
STC-7.5	7.5	9.4	13.5	4	1500
STC-10	10	12.5	18.1	4	1500
STC-12	12	15	21.7	4	1500
STC-15	15	18.8	27.1	4	1500
STC-20	20	25	36.1	4	1500
STC-30	30	37.5	54.1	4	1500
STC-40	40	50	72.2	4	1500
STC-50	50	62.5	90.2	4	1500

Generating & Welding Electro Alternator



Type SD/SDC Generating-Welding set is best driven by an internal Combustion engine. They thus form a mobile or stationary power supply unit Which is suited to be used in towns, country sides, forests, construction sites or on boats for lighting, household appliances, power tools and welding. This machine can serve for higher power generating or electric welding Individually, and for both welding and a small scale illumination simultaneously.

We can manufacture this generator at the voltage and frequency requested by our customers.

Model	Rated output		Rated voltage	Rated current (A)	Welding voltage under unload (V)	Welding current (A)	Continuous rate under load (%)	Current adjustment range for welding (A)
	KW	KVA						
SD-5	5	5	230	21.7	<80	160	40	70-200
SD-7.5	7.5	7.5	230	32.6	<80	200	40	80-240
SD-10	10	10	230	43.5	<80	230	40	100-300
SD-12	12	12	230	52.2	<80	300	40	140-320

Model	Rated output		Rated voltage	Rated current (A)	Welding voltage under unload (V)	Welding current (A)	Continuous rate under load (%)	Current adjustment range for welding (A)
	KW	KVA						
SDC-5	5	6.3	400	9	<80	140	40	60-160
SDC-7.5	7.5	9.4	400	13.5	<80	180	40	70-200
SDC-10	10	12.5	400	18.1	<80	225	40	80+280
SDC-12	12	15	400	21.7	<80	280	40	100-300

3-Phase Compound Excitation AC Synchronous Generator



TZH series generators have five advantages comparing with STC series generators. Compound excitation, simple circuit, high reliability, easy maintenance. Excellent dynamic characteristics, when load or unload suddenly, the circuit's light will not twinkle. Strong starting system, even if the motors of its 70% capacity volume they can be directly started and the switch will not trip. Approaching sine voltage wave and regulated power supply, output voltage can

be safely used on computers. The deviation of the 3-phase line voltage will be less than 3% when the generators undertake unbalanced loading.

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Type	Rated power		Rated current (A)	Rated speed (r/min)	Eff (%)	cosφ	Min.dr.Power (kW)	Frame No.
	kW	kVA						
TZH-30	30	37.5	54.1	1500	88.0	0.8	21	225
TZH-40	40	50	72.2	1500	89.0	0.8	28	225
TZH-50	50	62.5	90.2	1500	89.5	0.8	30	225
TZH-64	64	80	115	1500	90.5	0.8	30	250
TZH-75	75	93.75	135	1500	90.8	0.8	30	250
TZH-90	90	112.5	162	1500	91.0	0.8	55	280
TZH-120	120	150	217	1500	91.5	0.8	55	280