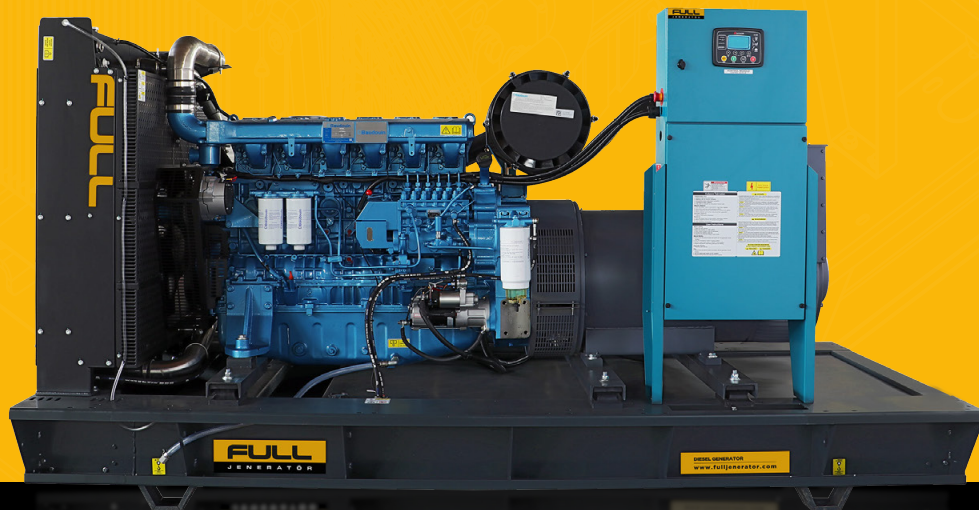




Wherever life takes you



Product Catalog

About Us

Established as part of Topçu Holding, Full Generator was founded with the vision of making generators an essential tool for efficiency and productivity, rather than a luxury item. With a focus on innovation and practicality, the company delivers solutions that meet the diverse needs of modern industries.

Operating from its state-of-the-art facilities in Sancaktepe, Istanbul, Full Generator specializes in the production of Diesel

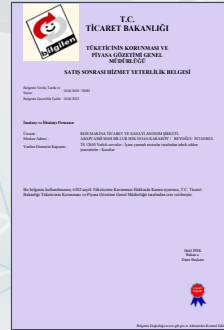
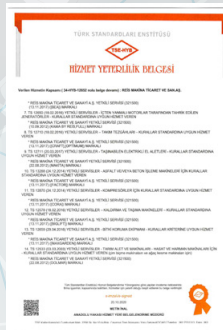
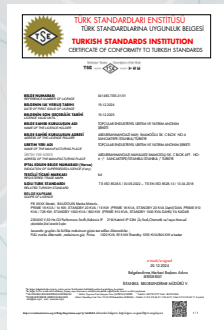
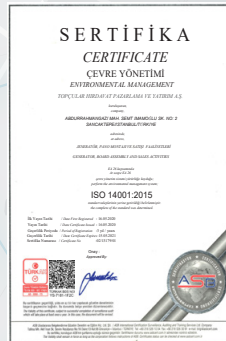
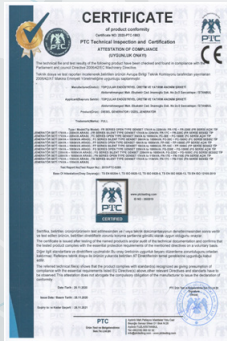
generator sets, Generator control panels, Power transfer panels, Generator chassis, Sound insulation canopies.

The company's product portfolio ranges from portable gasoline and diesel generators with capacities between 3 kVA and 14 kVA, to industrial diesel generators with outputs of 10 kVA to 2,500 kVA. Beyond standard offerings,

Full Generator provides tailored solutions such as synchronized systems and remote monitoring systems, addressing unique customer requirements with precision and efficiency.

All products are manufactured in compliance with international standards and undergo rigorous testing to ensure quality and reliability. This dedication to excellence has made Full Generator a trusted name in both the domestic and international markets, with exports reaching over 50 countries worldwide.

Drawing strength from the over 100-year commercial legacy of Topçu Holding, Full Generator has successfully completed numerous large-scale projects and continues to take bold strides toward becoming a globally recognized brand. Through a steadfast commitment to quality, innovation, and customer satisfaction, Full Generator is not just meeting the energy needs of today but shaping the power solutions of tomorrow.



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Over hundred years of commercial journey, Topçu Holding has contributed to industrialization and globalization processes of our country and has always maintained its pioneering position in machinery, construction, energy, hardware sectors with its stability and commitment to ethical values. Combining the trust gained from the past with innovative and dynamic approaches, Topçu Holding follows technological developments and offers products of carefully selected global brands to industry and production world.

Embracing the concept “Strength lies in unity”, Topçu Holding represents products of more than hundred global brands through its dealers network within Turkey; besides, with the studies of R&D department develops, designs and manufactures products supplied to local and global markets. Topçu Holding is always proud of its contribution to national economy and employment.

Topçu Holding carries out its activities with focusing on customer satisfaction, sustainability and social responsibility and continuously creates value for its customers, solution partners, employees and society.

As Topçu Holding, we are aware of our historical, national and cultural responsibility. Therefore we are always committed to progress and contribute to our country with our distributorship of global brands, determination of economic development with local national production facilities and increasing employment opportunities.

The Topçu family's journey in commerce began in the late 1800s when Ali Reis Topçu initiated wholesale food and scale sales in Rize. This entrepreneurial spirit continued into the early 1900s with the third generation diversifying into the production and sale of rubber shoes alongside the trade of construction materials, hardware, glass, and electrical supplies. In 1957, the family established Mehmet-Yaşar Topçu and Brothers Collective Company, which later evolved into Topçular Hardware Company. By 1966, the family had completely shifted its operations to Istanbul, laying the foundation for their future ventures.

Topçular Endüstriyel, a key division of Topçu Holding, leverages over 105 years of commercial history. Initially focused on importing hardware and related products, the company pivoted in the early 2000s to increase its production capacity and employment investments. Establishing manufacturing facilities in Istanbul and Konya, the company began producing diesel generators under the Full Generator brand, band saws under the Ozco brand, and stacking and lifting equipment under the Biglift brand.

Today, Topçular Endüstriyel plays a vital role in the Turkish economy, exporting its high-quality products to over 50 countries and pursuing its mission of becoming a globally recognized brand. Through innovation and dedication, the company continues to add value to both national and international markets.

FP Series

Perkins Engine Gensets



 Perkins®

LEROY-SOMER™

FULL
ALTERNATOR



10 kVA

1650 kVA

2500 kVA



ENGINE

- PERKINS heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis – ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL			FP 10	FP 17	FP 22	FP 33
GROUP	Standby	kVA	10	17	22	33
		kW	8	13.6	17.6	26.4
		kVA	9.1	15.4	20	30
		kW	7.2	12.3	16	24
	Rated Current	A	13.1	22.1	28.8	43.2
ENGINE	Engine		PERKINS			
	Engine Model		403A-11G	403A-15G2	404A-22G1	1103A-33G
	Number of Cylinders		3 Inline		4 Inline	3 Inline
	Injection System		Indirect			Direct
	Compression Ratio		23 : 1	22.5 : 1	23.3 : 1	19.25 : 1
	Bore	mm	77	84	84	105
	Stroke	mm	81	90	100	127
	Displacement	lt	1.1	1.49	2.21	3.3
	Air Intake		Naturally Aspirated			
	Speed (RPM)	rpm	1500			
	Oil Capacity	lt	5	6	10.6	8.3
	Standby Power	kW / hp	9.5 / 12.7	15.4 / 20.6	20.6 / 27.6	31 / 41.5
	Prime Power	kW / hp	8.6 / 11.5	14 / 18.8	18.7 / 25.1	28.2 / 37.8
	Fuel Type		Euro Diesel			
	Governor System		Mechanical			
	Cooling System		Water Cooling			
	Coolant Capacity	lt	5.5	6	7	10.2
	Fuel Consumption (lt / h)	Full Load	3	4.3	5.3	7.2
		75% Load	2.3	3.1	4	5.6
		50% Load	1.7	2.24	2.9	4
ALTERNATOR	Frequency	Hz	50			
	Voltage	V	400			
	Number of Phases		3			
	Voltage Regulation		±1%			
	Insulation Class		H			
	Protection Standard		IP23			
	Power Factor	Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)	kg	620 (490)	655 (525)	720 (590)	980 (825)
	Width Silent Type (Open)	mm	750 (750)	900 (900)	900 (900)	900 (900)
	Length Silent Type (Open)	mm	1500 (1400)	2000 (1650)	2000 (1650)	2200 (1850)
	Height Silent Type (Open)	mm	1175 (1360)	1310 (1460)	1310 (1460)	1470 (1560)
	Fuel Tank Capacity	lt	28	115	115	125

MODEL				FP 50	FP 66	FP 72	FP 88
GROUP		Standby	kVA	50	66	72	88
			kW	40	52.8	57.6	70.4
		Prime	kVA	45	60	65.4	80
			kW	36	48	52.3	64
	Rated Current		A	65	86.4	94	115.2
ENGINE	Engine			PERKINS			
	Engine Model			1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2
	Number of Cylinders			3 Inline		4 Inline	
	Injection System			Direct			
	Compression Ratio			17.3 : 1	17.25 : 1	17.25 : 1	17.25 : 1
	Bore		mm	105	105	105	105
	Stroke		mm	127	135	135	135
	Displacement		lt	3.3	7.1	7.1	7.1
	Air Intake			Turbocharge	Turbocharge & Air To Air Cooled		
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	7.9	8		
	Standby Power		kW / hp	60.5 / 81.1	65.6 / 87.9	80.7 / 108.1	226.1 / 303
	Prime Power		kW / hp	55 / 73.7	59.6 / 79.9	73.4 / 98.4	204.2 / 273
	Fuel Type			Euro Diesel			
	Governor System			Mechanical			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	10.2		13	
	Fuel Consumption (lt / h)		Full Load	10.8	14	14.6	18.5
			75% Load	8.2	10.4	11	14.2
			50% Load	5.8	7.2	8	9.8
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	1100 (940)	1200 (1030)	1280 (1100)	1350 (1160)
	Width Silent Type (Open)		mm	950 (950)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2300 (1900)	2400 (2000)	2400 (2000)	2800 (2350)
	Height Silent Type (Open)		mm	1520 (1660)	1600 (1750)	1600 (1750)	1620 (1810)
	Fuel Tank Capacity		lt	140	170	170	195

MODEL				FP 110	FP 150	FP 165	FP 200
GROUP		Standby	kVA	110	150	165	200
			kW	88	120	132	160
		Prime	kVA	100	136	150	182
			kW	80	110	120	145
	Rated Current		A	144	195	216	262
ENGINE	Engine			PERKINS			
	Engine Model			1104C-44TAG2	1106A-70TG1	1106A-70TAG2	1106A-70TAG3
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			18.2 : 1			16 : 1
	Bore		mm	105			
	Stroke		mm	127	135	135	135
	Displacement		lt	4.4	7.1	7.1	7.1
	Air Intake			Turbocharged & Air Charge Cooled			Turbocharged Aftercooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	8	18		16.5
	Standby Power		kW / hp	103 / 138	135.8 / 182	149.1 / 200	180.2 / 242
	Prime Power		kW / hp	93.6 / 125	122.7 / 164	136 / 182	162.7 / 218
	Fuel Type			Euro Diesel			
	Governor System			Mechanical			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	13	22	22	
	Fuel Consumption (lt / h)	Full Load		22	30.1	33.2	41.5
		75% Load		16.9	21.9	24.5	31.8
		50% Load		11.1	15.2	16.2	20.2
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	1480 (1290)	1890 (1650)	1950 (1710)	2190 (1850)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2800 (2350)	3150 (2550)	3150 (2550)	3150 (2550)
	Height Silent Type (Open)		mm	1620 (1810)	1810 (1900)	1810 (1900)	1810 (1900)
	Fuel Tank Capacity		lt	195	220	220	220

MODEL				FP 220	FP 250	FP 275	FP 330
GROUP		Standby	kVA	220	250	275	330
			kW	176	200	220	264
		Prime	kVA	200	227	250	300
			kW	160	182	200	240
	Rated Current			A	288	327	360
ENGINE	Engine			PERKINS			
	Engine Model			1106A-70TAG4	1206A- E70TTAG2	1206A-E70TTAG3	1506A- E88TAG5
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			16 : 1	15.8 : 1	15.8 : 1	16.1 : 1
	Bore		mm	105			112
	Stroke		mm	135	135	135	149
	Displacement		lt	7.1	7.1	7.1	8.8
	Air Intake			Turbocharged &Air Charge Cooled	Turbocharged Aftercooled		Turbocharged &Air Charge Cooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	18	16.5	16.5	41
	Standby Power		kW / hp	196.3 / 263	226.1 / 303	248.6 / 333	307/ 411
	Prime Power		kW / hp	178.9 / 240	204.2 / 273	226.2 / 303	281 / 377
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	22	25	30	30
	Fuel Consumption (lt / h)		Full Load	45.8	50.6	57	65
			75% Load	34.7	37.9	41.5	48.2
			50% Load	23.1	25.2	28.1	33
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	2220 (1890)	2500 (2070)	2790 (2360)	3320 (2890)
	Width Silent Type (Open)		mm	1000 (1000)	1200 (1200)	1200 (1200)	1200 (1200)
	Length Silent Type (Open)		mm	3150 (2550)	3500 (2900)	3500 (2900)	3900 (3275)
	Height Silent Type (Open)		mm	1810 (1900)	1980 (2160)	1980 (2160)	2210 (2330)
	Fuel Tank Capacity		lt	220	360	360	520

MODEL				FP 400	FP 450	FP 500
GROUP		Standby	kVA	400	450	500
			kW	320	360	400
		Prime	kVA	364	410	454
			kW	290	327	363
	Rated Current		A	524	590	653
ENGINE	Engine			PERKINS		
	Engine Model			2206A- E13TAG2	2206A-E13TAG3	2506A-E15TAG1
	Number of Cylinders			6 Inline		
	Injection System			Direct		
	Compression Ratio			16.3 : 1	16.3 : 1	16 : 1
	Bore		mm	130	130	137
	Stroke		mm	157	157	171
	Displacement		lt	13	13	15.2
	Air Intake			Turbocharge & Air To Air Cooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	41	43	62
	Standby Power		kW / hp	368 / 493	413 / 553	451 / 604
	Prime Power		kW / hp	324 / 434	368 / 493	412 / 552
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	52	52	58
	Fuel Consumption (lt / h)		Full Load	70.5	81	95
			75% Load	54	62	72
			50% Load	35	42	50
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	4100 (3550)	4100 (3550)	4280 (3565)
	Width Silent Type (Open)		mm	1600 (1600)	1600 (1600)	1600 (1600)
	Length Silent Type (Open)		mm	4600 (3900)	4600 (3900)	4600 (3900)
	Height Silent Type (Open)		mm	2700 (2950)	2700 (2950)	2700 (2950)
	Fuel Tank Capacity		lt	1100	1100	1100

MODEL				FP 550	FP 660	FP 725
GROUP		Standby	kVA	550	660	725
			kW	440	528	580
		Prime	kVA	500	600	660
			kW	400	480	528
	Rated Current		A	720	864	950
ENGINE	Engine			PERKINS		
	Engine Model			2506A- E15TAG2	2806A- E18TAG1A	2806A-E18TAG2
	Number of Cylinders			6 Inline		
	Injection System			Direct		
	Compression Ratio			16 : 1	14.5 : 1	14.5 : 1
	Bore		mm	137	145	145
	Stroke		mm	171	183	183
	Displacement		lt	15.2	18.1	18.1
	Air Intake			Turbocharge & Air To Air Cooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	62	62	62
	Standby Power		kW / hp	495 / 663	592.7 / 794	628 / 841
	Prime Power		kW / hp	451 / 604	539.7 / 723	584 / 782
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	58	61	61
	Fuel Consumption (lt / h)	Full Load		100	123	132
		75% Load		76	90	97
		50% Load		53	61	66
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	4300 (3585)	5600 (4800)	5650 (4850)
	Width Silent Type (Open)		mm	1600 (1600)	1900 (1900)	1900 (1900)
	Length Silent Type (Open)		mm	4600 (3900)	4500 (3850)	4500 (3850)
	Height Silent Type (Open)		mm	2700 (2950)	2750 (3000)	2750 (3000)
	Fuel Tank Capacity		lt	1100	1150	1150

MODEL				FP 850	FP 900	FP 1125
GROUP		Standby	kVA	850	900	1125
			kW	680	720	900
		Prime	kVA	772	818	1022
			kW	618	655	817
	Rated Current		A	1110	1178	1470
ENGINE	Engine			PERKINS		
	Engine Model			2806A-E18TTAG5	4006-23TAG3A	4008TAG2A
	Number of Cylinders			6 Inline	8 Inline	
	Injection System			Direct		
	Compression Ratio			14 : 1	13.6 : 1	
	Bore		mm	145	160	160
	Stroke		mm	183	190	190
	Displacement		lt	18.1	22.9	30.56
	Air Intake			Turbocharge & Air To Air Cooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	72	114	153
	Standby Power		kW / hp	743 / 996	786 / 1053	985 / 1320
	Prime Power		kW / hp	676 / 907	705 / 945	899 / 1204
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	110	105	150
	Fuel Consumption (lt / h)	Full Load		159	172	215
		75% Load		115.8	130	162
		50% Load		78	90	111
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±0.5%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	6910 (6050)	8200 (6400)	9950 (8150)
	Width Silent Type (Open)		mm	1900 (1900)	2300 (2300)	2300 (2300)
	Length Silent Type (Open)		mm	4800 (4150)	6000 (6000)	6000 (6000)
	Height Silent Type (Open)		mm	3460 (3350)	3385 (3385)	3385 (3385)
	Fuel Tank Capacity		lt	1050	1600	1600

MODEL				FP 1250	FP 1385	FP 1650
GROUP		Standby	kVA	1250	1385	1650
			kW	1000	1108	1320
		Prime	kVA	1136	1259	1500
			kW	908	1007	1200
	Rated Current		A	1635	1813	2160
ENGINE	Engine			PERKINS		
	Engine Model			4008-30TAG3	4012-46TWG2A	4012-46TAG2A
	Number of Cylinders			8 Inline	V-12	
	Injection System			Direct		
	Compression Ratio			13:1		
	Bore		mm	160	160	160
	Stroke		mm	190	190	190
	Displacement		lt	30,56	45,48	45,84
	Air Intake			Turbocharge & Air To Air Charge Cooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	5.5	6.7	6.7
	Standby Power		kW / hp	12 / 16	16 / 21.4	21 / 28
	Prime Power		kW / hp	11 / 14.7	14.5 / 19.4	19 / 25.4
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	7	7.6	9
	Fuel Consumption (lt / h)	Full Load		3.1	4.2	5.2
		75% Load		2.9	3.5	4.4
		50% Load		2.3	2.7	3.5
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	10150 (8350)	12400 (10600)	12900 (11100)
	Width Silent Type (Open)		mm	2300 (2300)	2400 (2400)	2400 (2400)
	Length Silent Type (Open)		mm	6000 (6000)	7500 (6000)	7500 (6000)
	Height Silent Type (Open)		mm	3385 (3385)	3485 (3485)	3485 (3485)
	Fuel Tank Capacity		lt	2000	2000	2500

FC Series

Cummins Engine Gensets



10 kVA

30 kVA

1650 kVA

2500 kVA



ENGINE

- CUMMINS heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis – ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FC 30	FC 44	FC 63	FC 88
GROUP		Standby	kVA	30	44	63	88
			kW	24	35.2	50.4	70.4
		Prime	kVA	27.2	40	57.2	80
			kW	21.8	32	45.8	64
	Rated Current		A	39.2	57.6	82.3	115
ENGINE	Engine			CUMMINS			
	Engine Model			4B3.9-G1	4BT3.9-G1	4BTA3.9-G2	4BTA3.9-G11
	Number of Cylinders			4 Inline			
	Injection System			Direct			
	Compression Ratio			17.3 : 1			
	Bore		mm	102	102	102	102
	Stroke		mm	120	120	120	120
	Displacement		lt	3.9	3.9	3.9	3.9
	Air Intake			Naturally Aspirated	Turbocharged	Turbocharged & Aftercooled	
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	10.9	10.9	10.9	10.9
	Standby Power		kW / hp	27 / 36	40 / 54	64 / 86	80 / 107
	Prime Power		kW / hp	24 / 32	36 / 48	58 / 78	70 / 93
	Fuel Type			Euro Diesel			
	Governor System			Mechanical		Electronic	
	Cooling System			Water Cooling			
	Coolant Capacity		lt	8.3	8.3	8.3	8.3
	Fuel Consumption (lt / h)		Full Load	7.1	10	15	17.6
			75% Load	5.7	7.9	11	13.2
			50% Load	4.3	5.9	8	9.1
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	880 (725)	1050 (890)	1160 (970)	1270 (1076)
	Width Silent Type (Open)		mm	950 (950)	950 (950)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2300 (1900)	2300 (1900)	2400 (2000)	2800 (2350)
	Height Silent Type (Open)		mm	1520 (1660)	1520 (1660)	1600 (1750)	1620 (1810)
	Fuel Tank Capacity		lt	140	140	170	195

MODEL				FC 110	FC 150	FC 175	FC 200
GROUP		Standby	kVA	110	150	175	200
			kW	88	120	140	160
		Prime	kVA	100	136	159	182
			kW	80	109	127	146
		Rated Current		A	144	196	229
ENGINE	Engine			CUMMINS			
	Engine Model			6BT5.9-G2	6BTAA5.9-G2	6BTAA5.9-G12	6CTA8.3-G2
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			17.3 : 1			
	Bore		mm	102	102	102	114
	Stroke		mm	120	120	120	135
	Displacement		lt	5.9	5.9	5.9	8.3
	Air Intake			Turbocharged	Turbocharged and Charge Air Cooled		Turbocharged & Aftercooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	16.4	16.4	16.4	23.8
	Standby Power		kW / hp	92 / 123	130 / 174	155 / 207	180 / 241
	Prime Power		kW / hp	86 / 115	120 / 161	140 / 187	163 / 218
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	7.9	10	10	12.3
	Fuel Consumption (lt / h)	Full Load		22.3	30	34	44
		75% Load		16.9	23	26	33
		50% Load		11.3	16	17	23
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	1375 (1181)	1550 (1311)	1595 (1356)	1950 (1670)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2800 (2350)	3150 (2550)	3150 (2550)	3150 (2550)
	Height Silent Type (Open)		mm	1620 (1810)	1810 (1900)	1810 (1900)	1810 (1900)
	Fuel Tank Capacity		lt	195	220	220	220

MODEL				FC 220	FC 250	FC 275	FC 325
GROUP		Standby	kVA	220	250	275	325
			kW	176	200	220	260
		Prime	kVA	200	227	250	295
			kW	160	182	200	237
		Rated Current		A	288	327	360
ENGINE	Engine			CUMMINS			
	Engine Model			6CTAA8.3-G2	6LTAA8.9-G2	6LTAA8.9-G3	NTA855-G1A
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			18 : 1	16.6 : 1	16.6 : 1	14.5 : 1
	Bore		mm	114	114	114	140
	Stroke		mm	135	145	145	152
	Displacement		lt	8.3	8.9	8.9	14
	Air Intake			Turbocharged Air Aftercooled	Turbocharged and Charge Air Cooled		Turbocharged Air Aftercooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	23.8	30	34	36
	Standby Power		kW / hp	203 / 272	240 / 322	250 / 335	291 / 390
	Prime Power		kW / hp	183 / 245	220 / 295	230 / 308	264 / 355
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	12.3	11.1	35	35
	Fuel Consumption (lt / h)	Full Load		45	54	54	61.3
		75% Load		34	41	41	46.1
		50% Load		23	30	30	31.4
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	2190 (1850)	2198 (1858)	2780 (2440)	3385 (2955)
	Width Silent Type (Open)		mm	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	Length Silent Type (Open)		mm	3500 (2900)	3500 (2900)	3500 (2900)	3900 (3275)
	Height Silent Type (Open)		mm	1850 (2100)	1980 (2160)	1980 (2160)	2210 (2330)
	Fuel Tank Capacity		lt	360	360	360	520

MODEL				FC 350	FC 385	FC 420	FC 450
GROUP		Standby	kVA	350	385	420	450
			kW	280	308	336	360
		Prime	kVA	318	350	382	409
			kW	255	280	306	327
	Rated Current		A	458	505	550	588
ENGINE	Engine			CUMMINS			
	Engine Model			NTA855-G1B	NTA855-G2A	NTAA855-G7	NTAA855-G7A
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			14 : 1	14 : 1	14 : 1	14 : 1
	Bore		mm	140	140	140	140
	Stroke		mm	152	152	152	152
	Displacement		lt	14	14	14	14
	Air Intake			Turbocharged & Aftercooled		Turbocharged & Air-Air Cooled	Turbocharged & Air Cooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	39	39	39	38.6
	Standby Power		kW / hp	321 / 430	343 / 460	377 / 505	407 / 545
	Prime Power		kW / hp	284 / 380	312 / 418	343 / 460	370 / 496
	Fuel Type			Euro Diesel			
	Governor System		kW / hp	Electronic	Mechanical	Electronic	
	Cooling System			Water Cooling			
	Coolant Capacity		lt	50	55	55	60
	Fuel Consumption (lt / h)		Full Load	61.2	71.9	89.2	89.2
			75% Load	44.9	54.9	67.8	67.8
			50% Load	27.6	38.9	47.5	47.5
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	3190 (2760)	3585 (3095)	3765 (3275)	4015 (3480)
	Width Silent Type (Open)		mm	1200 (1200)	1200 (1200)	1500 (1500)	1600 (1600)
	Length Silent Type (Open)		mm	3900 (3275)	3900 (3275)	4000 (3300)	4600 (3900)
	Height Silent Type (Open)		mm	2210 (2330)	2210 (2330)	2360 (2600)	2700 (2950)
	Fuel Tank Capacity		lt	520	520	630	630

MODEL				FC 500	FC 550	FC 570
GROUP		Standby	kVA	500	550	570
			kW	400	440	456
		Prime	kVA	454	500	518
			kW	363	400	414
	Rated Current		A	653	720	746
ENGINE	Engine			CUMMINS		
	Engine Model			QSZ13-G3	KTA19-G3A	QSZ13-G10
	Number of Cylinders			6 Inline		
	Injection System			Direct		
	Compression Ratio			17 : 1	13.9 : 1	17 : 1
	Bore		mm	130	159	130
	Stroke		mm	163	159	163
	Displacement		lt	13	19	13
	Air Intake			Turbocharged & Air cooled	Turbocharged & Intercooled	Turbocharged & Aftercooled
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	45	50	75
	Standby Power		kW / hp	470 / 629	504 / 675	509 / 682
	Prime Power		kW / hp	450 / 603	448 / 600	463 / 621
	Fuel Type			Euro Diesel		
	Governor System		kW / hp	Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	60	75	77
	Fuel Consumption (lt / h)		Full Load	101	107	107
			75% Load	74.2	82.3	80
			50% Load	49	56.4	54
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	4100 (3625)	5085 (4410)	4925 (4250)
	Width Silent Type (Open)		mm	1600 (1600)	1600 (1600)	1600 (1600)
	Length Silent Type (Open)		mm	4600 (3900)	4600 (3900)	4600 (3900)
	Height Silent Type (Open)		mm	2700 (2950)	2700 (2950)	2700 (2950)
	Fuel Tank Capacity		lt	1100	1100	1100

MODEL			FC 690		FC 750		FC 825		
GROUP		Standby	kVA	690	750		825		
			kW	552	600		660		
		Prime	kVA	630	681		750		
			kW	505	545		600		
	Rated Current		A	910	980		1080		
ENGINE	Engine			CUMMINS					
	Engine Model			KTAA19-G6A		QSK19-G11		KTA38-G2	
	Number of Cylinders			6 Inline				V - 12	
	Injection System			Direct					
	Compression Ratio			13 : 1		15 : 1		14.5 : 1	
	Bore		mm	159		159		159	
	Stroke		mm	159		159		159	
	Displacement		lt	19		19		38	
	Air Intake			Turbocharged & Aftercooled		Turbocharged and Charge Air Cooled		Turbocharged & Aftercooled	
	Speed (RPM)		rpm	1500					
	Oil Capacity		lt	50		80		135	
	Standby Power		kW / hp	610 / 818		667 / 894		731 / 980	
	Prime Power		kW / hp	554 / 742		606 / 813		664 / 890	
	Fuel Type			Euro Diesel					
	Governor System		kW / hp	Electronic					
	Cooling System			Water Cooling					
	Coolant Capacity		lt	75		42		350	
	Fuel Consumption (lt / h)		Full Load	148.3		153		167	
			75% Load	112.7		116		128	
			50% Load	76.4		83		90	
ALTERNATOR	Frequency		Hz	50					
	Voltage		V	400					
	Number of Phases			3					
	Voltage Regulation			±1%					
	Insulation Class			H					
	Protection Standard			IP23					
	Power Factor		Cos	0.8					
DIMENSIONS	Weight Silent Type (Open)		kg	5260 (4580)		5750 (4900)		8650 (7500)	
	Width Silent Type (Open)		mm	1600 (1600)		1900 (1900)		2150 (2150)	
	Length Silent Type (Open)		mm	4600 (3900)		4800 (4150)		5200 (5200)	
	Height Silent Type (Open)		mm	2700 (2950)		2920 (3250)		3500 (3400)	
	Fuel Tank Capacity		lt	1100		1050		1600	

MODEL			FC 900	FC 1000	FC 1100
GROUP	Standby	kVA	900	1000	1100
		kW	720	800	880
	Prime	kVA	818	909	1000
		kW	654	727	800
	Rated Current	A	1177	1308	1440
ENGINE	Engine		CUMMINS		
	Engine Model		KTA38-G2B	KTA38-G2A	KTA38-G5
	Number of Cylinders		V-12		
	Injection System		Direct		
	Compression Ratio		14.5:1		13.9 : 1
	Bore	mm	159	159	159
	Stroke	mm	159	159	159
	Displacement	lt	38	38	38
	Air Intake		Turbocharged & Aftercooled		
	Speed (RPM)	rpm	1500		
	Oil Capacity	lt	135	135	135
	Standby Power	kW / hp	789 / 1057	895 / 1199	970 / 1300
	Prime Power	kW / hp	711 / 953	813 / 1089	880 / 1180
	Fuel Type		Euro Diesel		
	Governor System		Electronic		
	Cooling System		Water Cooling		
	Coolant Capacity	lt	350	350	350
	Fuel Consumption (lt / h)	Full Load	176.9	202.3	209
		75% Load	133.3	153.7	161
		50% Load	91.3	103.1	113
ALTERNATOR	Frequency	Hz	50		
	Voltage	V	400		
	Number of Phases		3		
	Voltage Regulation		±1%		
	Insulation Class		H		
	Protection Standard		IP23		
	Power Factor	Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)	kg	8700 (7550)	8750 (7600)	10220 (9070)
	Width Silent Type (Open)	mm	2150 (2150)	2150 (2150)	2300 (2300)
	Length Silent Type (Open)	mm	5200 (5200)	5200 (5200)	6000 (6000)
	Height Silent Type (Open)	mm	3500 (3400)	3500 (3400)	3385 (3385)
	Fuel Tank Capacity	lt	1600	1600	1600

MODEL				FC 1250	FC 1400	FC 1650
GROUP		Standby	kVA	1250	1400	1650
			kW	1000	1120	1320
		Prime	kVA	1136	1272	1500
			kW	908	1018	1200
	Rated Current		A	1635	1832	2160
ENGINE	Engine			CUMMINS		
	Engine Model			KTA38-G9	KTA50-G3	KTA50-G8
	Number of Cylinders			V-12	V-16	
	Injection System			Direct		
	Compression Ratio			13.9 : 1		14.9 : 1
	Bore		mm	159	159	159
	Stroke		mm	159	159	159
	Displacement		lt	38	50.3	50.3
	Air Intake			Turbocharged & Aftercooled		Turbocharged & Low Temp. Aftercooled
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	135	177	204
	Standby Power		kW / hp	1089 / 1460	1227 / 1645	1429 / 1915
	Prime Power		kW / hp	990 / 1327	1150 / 1541	1200 / 1608
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	350	350	350
	Fuel Consumption (lt / h)	Full Load		256	261	289
		75% Load		196	199	222
		50% Load		137	139	155
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	10450 (9300)	12400 (11270)	13000 (11800)
	Width Silent Type (Open)		mm	2300 (2300)	2400 (2400)	2400 (2400)
	Length Silent Type (Open)		mm	6000 (6000)	7500 (6000)	7500 (6000)
	Height Silent Type (Open)		mm	3385 (3385)	3485 (3485)	3485 (3485)
	Fuel Tank Capacity		lt	2000	2000	2500

FB Series

Baudouin Engine Gensets



 **Baudouin**

LEROY-SOMER™

FULL
ALTERNATOR



10 kVA

1250 kVA

2500 kVA



ENGINE

- Baudouin heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FB 20	FB 25	FB 35	FB 44	FB 50
GROUP		Standby	kVA	20	25	35	44	50
			kW	16	20	28	35	40
		Prime	kVA	18	22.5	31.8	40	45
			kW	14	18	25	32	36
	Rated Current		A	25.9	32.4	45	57.6	64.8
ENGINE	Engine			BAUDOUIN				
	Engine Model			4M06G20-5	4M06G25-5	4M06G35-5	4M06G44-5	4M06G50-5
	Number of Cylinders			4 Inline				
	Injection System			Direct				
	Compression Ratio			17.5 : 1	17.5 : 1	17.5 : 1	17.5 : 1	17.5 : 1
	Bore		mm	89	89	89	89	89
	Stroke		mm	92	92	92	92	92
	Displacement		lt	2.3	2.3	2.3	2.3	2.3
	Air Intake			Naturally Aspirated		Turbocharged		Turbocharge & Aftercooler
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	9.5	9.5	9.5	9.6	9.6
	Standby Power		kW / hp	20 / 26.8	25 / 33.5	33 / 44	41 / 55	48 / 64
	Prime Power		kW / hp	18 / 24	23 / 30.8	30 / 40	37 / 49.5	44 / 59
	Fuel Type			Euro Diesel				
	Governor System			Electronic				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	16	16	16	16	16
	Fuel Consumption (lt / h)		Full Load	4.8	6.2	7.6	9.3	10.7
			75% Load	3.7	4.5	5.4	6.8	7.8
			50% Load	2.6	3.2	4.1	4.6	5.4
ALTERNATOR	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
DIMENSIONS	Weight Silent Type (Open)		kg	790 (658)	790 (658)	860 (725)	950 (770)	1040 (840)
	Width Silent Type (Open)		mm	900 (900)	900 (900)	900 (900)	900 (900)	950 (950)
	Length Silent Type (Open)		mm	2000 (1650)	2000 (1650)	2200 (1850)	2200 (1850)	2300 (1900)
	Height Silent Type (Open)		mm	1310 (1460)	1310 (1460)	1470 (1560)	1470 (1560)	1520 (1660)
	Fuel Tank Capacity		lt	115	115	125	125	140

MODEL				FB 55	FB 72	FB 88	FB 110	FB 150
GROUP		Standby	kVA	55	72	88	110	150
			kW	44	57	70	88	120
		Prime	kVA	50	65	80	100	136
			kW	40	52	64	80	109
	Rated Current			A	72	93.6	115	144
ENGINE	Engine			BAUDOUIN				
	Engine Model			4M06G55-5	4M10G70-5	4M10G88-5	4M10G110-5	6M11G150-5
	Number of Cylinders			4 Inline				6 Inline
	Injection System			Direct				
	Compression Ratio			17.5 : 1	17.5 : 1	17.5 : 1	17.5 : 1	18 : 1
	Bore		mm	89	105	105	105	105
	Stroke		mm	92	118	118	118	130
	Displacement		lt	2.3	4.1	4.1	4.1	6.75
	Air Intake			Turbocharge & Aftercooler	Turbocharged		Turbocharge & Aftercooled	
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	9.6	14	14	14	17
	Standby Power		kW / hp	53 / 71	66 / 88.5	80 / 107.3	100 / 134	140 / 187
	Prime Power		kW / hp	48 / 64	60 / 80.5	72 / 96.6	90 / 120.7	128 / 171
	Fuel Type			Euro Diesel				
	Governor System			Ecu	Electronic			
	Cooling System			Water Cooling				
	Coolant Capacity		lt	16	18	18	18	20
	Fuel Consumption (lt / h)		Full Load	11.9	15	18.8	21.3	30.2
			75% Load	8.8	11.1	13.5	16	23
			50% Load	6.2	7.74	9.1	11	15.9
ALTERNATOR	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
DIMENSIONS	Weight Silent Type (Open)		kg	1050 (850)	1300 (1110)	1325 (1132)	1460 (1240)	1995 (1735)
	Width Silent Type (Open)		mm	950 (950)	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2300 (1900)	2400 (2000)	2800 (2350)	2800 (2350)	3150 (2550)
	Height Silent Type (Open)		mm	1520 (1660)	1600 (1750)	1620 (1810)	1620 (1810)	1810 (1900)
	Fuel Tank Capacity		lt	140	170	195	195	220

MODEL				FB 165	FB 220	FB 250	FB 275
GROUP		Standby	kVA	165	220	250	275
			kW	132	176	200	220
		Prime	kVA	150	200	227	250
			kW	120	160	181	200
	Rated Current		A	216	288	326	360
ENGINE	Engine			BAUDOUIN			
	Engine Model			6M11G165-5	6M16G220-5	6M16G250-5	6M16G275-5
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			18 : 1	17 : 1	17 : 1	17 : 1
	Bore		mm	105	126	126	126
	Stroke		mm	130	130	130	130
	Displacement		lt	6.75	9.726	9.726	9.726
	Air Intake			Turbocharge & Aftercooled			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	17	26	26	26
	Standby Power		kW / hp	152 / 203	204 / 273	238 / 319	264 / 353
	Prime Power		kW / hp	138 / 185	187 / 250	216 / 289	240 / 321
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	20	42	42	42
	Fuel Consumption (lt / h)	Full Load		32.6	43.1	50.9	56.9
		75% Load		24.6	32.4	38	42.2
		50% Load		16.7	22.4	25.8	28.3
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	2040 (1775)	2700 (2275)	2765 (2340)	2795 (2370)
	Width Silent Type (Open)		mm	1000 (1000)	1200 (1200)	1200 (1200)	1200 (1200)
	Length Silent Type (Open)		mm	3150 (2550)	3500 (2900)	3500 (2900)	3500 (2900)
	Height Silent Type (Open)		mm	1810 (1900)	1980 (2160)	1980 (2160)	1980 (2160)
	Fuel Tank Capacity		lt	220	360	360	360

MODEL				FB 300	FB 350	FB 400	FB 450
GROUP		Standby	kVA	300	350	400	450
			kW	240	280	320	360
		Prime	kVA	273	318	364	410
			kW	218	254	290	327
	Rated Current		A	393	457	524	590
ENGINE	Engine			BAUDOUIN			
	Engine Model			6M16G300-5	6M16G350-5	6M21G400-5	6M21G440-5
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			17 : 1	17 : 1	16 : 1	16 : 1
	Bore		mm	126	126	127	127
	Stroke		mm	130	130	165	165
	Displacement		lt	9.726	9.726	12.54	12.54
	Air Intake			Turbocharge & Aftercooled			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	26	26	30	30
	Standby Power		kW / hp	280 / 375	320 / 428	385 / 516	405 / 542
	Prime Power		kW / hp	255 / 341	275 / 368	350 / 469	368 / 493
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	42	42	47	47
	Fuel Consumption (lt / h)	Full Load		58.8	66.4	82.1	85.5
		75% Load		45.2	50.8	60.7	63.5
		50% Load		32.6	36.4	41	43.2
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	2990 (2565)	3080 (2655)	3550 (3015)	3690 (3155)
	Width Silent Type (Open)		mm	1200 (1200)	1200 (1200)	1500 (1500)	1500 (1500)
	Length Silent Type (Open)		mm	3900 (3275)	3900 (3275)	4000 (3300)	4000 (3300)
	Height Silent Type (Open)		mm	2210 (2330)	2210 (2330)	2360 (2600)	2360 (2600)
	Fuel Tank Capacity		lt	520	520	630	630

MODEL				FB 500	FB 550	FB 660
GROUP		Standby	kVA	500	550	660
			kW	400	440	528
		Prime	kVA	454	500	600
			kW	363	400	480
	Rated Current		A	653	720	864
ENGINE	Engine			BAUDOUIN		
	Engine Model			6M21G500-5	6M21G550-5	6M33G660-5
	Number of Cylinders			6 Inline		
	Injection System			Direct		
	Compression Ratio			16 : 1	15.2 : 1	15 : 1
	Bore		mm	127	127	150
	Stroke		mm	165	165	185
	Displacement		lt	12.54	12.54	19.6
	Air Intake			Turbocharge & Aftercooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	30	40	55
	Standby Power		kW / hp	450 / 603	490 / 656	587 / 786
	Prime Power		kW / hp	409 / 548	445 / 596	536 / 718
	Fuel Type			Euro Diesel		
	Governor System			Ecu		Electronic
	Cooling System			Water Cooling		
	Coolant Capacity		lt	47	62	160
	Fuel Consumption (lt / h)	Full Load		95.9	109.5	126.5
		75% Load		69.6	75.3	94.1
		50% Load		46.6	51	63.6
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	3990 (3455)	3990 (3455)	5980 (5120)
	Width Silent Type (Open)		mm	1500 (1500)	1500 (1500)	1900 (1900)
	Length Silent Type (Open)		mm	4000 (3300)	4000 (3300)	4800 (4150)
	Height Silent Type (Open)		mm	2360 (2600)	2360 (2600)	2920 (3250)
	Fuel Tank Capacity		lt	630	630	1050

MODEL				FB 725	FB 750	FB 825
GROUP		Standby	kVA	725	750	825
			kW	580	600	660
		Prime	kVA	659	681	750
			kW	527	544	600
	Rated Current		A	949	980	1080
ENGINE	Engine			BAUDOUIN		
	Engine Model			6M33G715-5	6M33G750-5	6M33G825-5
	Number of Cylinders			6 Inline		
	Injection System			Direct		
	Compression Ratio			15 : 1		
	Bore		mm	150	150	150
	Stroke		mm	185	185	185
	Displacement		lt	19.6	19.6	19.6
	Air Intake			Turboşarj & Aftercooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	55		155
	Standby Power		kW / hp	633 / 848	670 / 898	725 / 972
	Prime Power		kW / hp	575 / 770	610 / 818	675 / 905
	Fuel Type			Euro Diesel		
	Governor System			Electronic		Ecu
	Cooling System			Water Cooling		
	Coolant Capacity		lt	160		240
	Fuel Consumption (lt / h)		Full Load	136.3	151.1	161.5
			75% Load	100	111.2	116.4
			50% Load	67.1	75.5	76.9
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	6115 (5255)	6130 (5270)	6625 (5765)
	Width Silent Type (Open)		mm	1900 (1900)	1900 (1900)	1900 (1900)
	Length Silent Type (Open)		mm	4800 (4150)	4800 (4150)	4800 (4150)
	Height Silent Type (Open)		mm	3460 (3250)	3460 (3250)	3460 (3250)
	Fuel Tank Capacity		lt	1050	1050	1050

MODEL				FB 900	FB 1000	FB 1125	FB 1250
GROUP		Standby	kVA	900	1000	1125	1250
			kW	720	800	900	1000
		Prime	kVA	818	910	1022	1136
			kW	655	728	817	908
	Rated Current		A	1178	1310	1470	1635
ENGINE	Engine			BAUDOUIN			
	Engine Model			12M26G900-5	12M26G1000-5	12M26G1100-5	12M33G1250-5
	Number of Cylinders			V-12			
	Injection System			Direct			
	Compression Ratio			15.7 : 1			15 : 1
	Bore		mm	150	150	150	150
	Stroke		mm	150	150	150	185
	Displacement		lt	31.8	31.8	31.8	39.2
	Air Intake			Turbocharged & Aftercooled			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	100			155
	Standby Power		kW / hp	793 / 1062	902 / 1208	973 / 1303	1108 / 1484
	Prime Power		kW / hp	725 / 971	820 / 1098	889 / 1191	1007 / 1349
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	190			240
	Fuel Consumption (lt / h)	Full Load		173.7	195.5	207.1	236.2
		75% Load		133.1	146.5	155.3	175
		50% Load		90.8	100.8	106.6	119.5
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	8150 (7290)	8250 (7390)	8470 (7610)	10900 (9300)
	Width Silent Type (Open)		mm	1900 (1900)	1900 (1900)	1900 (1900)	2300 (2300)
	Length Silent Type (Open)		mm	4800 (4150)	4800 (4150)	4800 (4150)	6000 (6000)
	Height Silent Type (Open)		mm	3460 (3350)	3460 (3350)	3460 (3350)	3385 (3385)
	Fuel Tank Capacity		lt	1050	1050	1050	2000

MODEL				FB 1400	FB 1500	FB 1650
GROUP		Standby	kVA	1400	1500	1650
			kW	1120	1200	1320
		Prime	kVA	1272	1363	1500
			kW	1018	1090	1200
	Rated Current		A	1832	1963	2160
ENGINE	Engine			BAUDOUIN		
	Engine Model			12M33G1400-5	12M33G1500-5	12M33G1650-5
	Number of Cylinders			V-12		
	Injection System			Direct		
	Compression Ratio			15:1		
	Bore		mm	150	150	150
	Stroke		mm	185	185	185
	Displacement		lt	39.2	39.2	39.2
	Air Intake			Turbocharged & Aftercooled		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	155		
	Standby Power		kW / hp	1210 / 1621	1320 / 1768	1450 / 2063
	Prime Power		kW / hp	1100 / 1474	1200 / 1608	1350 / 1809
	Fuel Type			Euro Diesel		
	Governor System			Mechanical		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	240		
	Fuel Consumption (lt / h)	Full Load		258.6	296	324
		75% Load		190.7	222	234.2
		50% Load		129.2	148	156.1
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±0.5%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	11860 (10260)	12200 (10600)	12450 (10850)
	Width Silent Type (Open)		mm	2400 (2400)	2400 (2400)	2400 (2400)
	Length Silent Type (Open)		mm	7500 (5000)	7500 (5000)	7500 (5000)
	Height Silent Type (Open)		mm	3485 (3485)	3485 (3485)	3485 (3485)
	Fuel Tank Capacity		lt	2000	2000	2500

FG Series

SD Engine Gensets



SD
Diesel Engine
FULL
ALTERNATÖR



10 kVA

220 kVA

1250 kVA

2500 kVA



ENGINE

- SD heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FG 220	FG 250	FG 275	FG 330
GROUP		Standby	kVA	220	250	275	330
			kW	176	200	220	264
		Prime	kVA	200	227	250	300
			kW	160	182	200	240
	Rated Current			A	288	327	360
ENGINE	Engine			SD			
	Engine Model			SD6L180TAD	SD6L206TAD	SD6L227TAD	SD13G355D
	Number of Cylinders			6 Inline			
	Injection System			Direct			
	Compression Ratio			18 : 1			17 : 1
	Bore		mm	114	114	114	135
	Stroke		mm	135	135	135	150
	Displacement		lt	8.27	8.27	8.27	12.88
	Air Intake			Turbocharged & Intercooled			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	19	19	19	35
	Standby Power		kW / hp	198 / 265	223 / 299	245 / 328	286 / 383
	Prime Power		kW / hp	180 / 241	203 / 272	223 / 299	260 / 348
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	48	48	48	60
	Fuel Consumption (lt / h)		Full Load	41	46.2	52.7	58.7
			75% Load	31.5	35.5	39.8	44
			50% Load	21.3	23.7	26.4	29.4
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	2260 (1920)	2280 (1940)	2530 (2190)	3840 (3070)
	Width Silent Type (Open)		mm	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	Length Silent Type (Open)		mm	3500 (2900)	3500 (2900)	3500 (2900)	3900 (3275)
	Height Silent Type (Open)		mm	1980 (2160)	1980 (2160)	1980 (2160)	2210 (2330)
	Fuel Tank Capacity		lt	360	360	360	520

MODEL				FG 385	FG 450	FG 500	FG 550	
GROUP		Standby	kVA	385	450	500	550	
			kW	308	360	400	440	
		Prime	kVA	350	409	454	500	
			kW	280	327	363	400	
	Rated Current			A	504	588	653	720
ENGINE	Engine				SD			
	Engine Model				SD13G420D	SD15G500D	SD15G550D	SD27G612TLD
	Number of Cylinders				6 Inline			V-12
	Injection System				Direct			
	Compression Ratio				17 : 1	17 : 1	17 : 1	16 : 1
	Bore			mm	135	135	138	135
	Stroke			mm	150	165	170	155
	Displacement			lt	12.88	14.2	15.2	26.6
	Air Intake				Turbocharged & Intercooled			
	Speed (RPM)			rpm	1500			
	Oil Capacity			lt	35	32.5	41	100
	Standby Power			kW / hp	335 / 449	389 / 521	434 / 581	478 / 640
	Prime Power			kW / hp	305 / 409	354 / 474	395 / 529	435 / 583
	Fuel Type				Euro Diesel			
	Governor System				Electronic			
	Cooling System				Water Cooling			
	Coolant Capacity			lt	60	60	75	151
	Fuel Consumption (lt / h)		Full Load		70	83.7	98	113.6
			75% Load		52.5	62.8	73.5	87.2
			50% Load		35	41.9	49	58.7
ALTERNATOR	Frequency			Hz	50			
	Voltage			V	400			
	Number of Phases				3			
	Voltage Regulation				±1%			
	Insulation Class				H			
	Protection Standard				IP23			
	Power Factor			Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)			kg	3940 (3280)	4070 (3400)	4070 (3400)	5500 (4700)
	Width Silent Type (Open)			mm	1500 (1500)	1500 (1500)	1500 (1500)	1900 (1900)
	Length Silent Type (Open)			mm	4000 (3300)	4000 (3300)	4000 (3300)	4500 (3850)
	Height Silent Type (Open)			mm	2360 (2600)	2360 (2600)	2360 (2600)	2750 (3000)
	Fuel Tank Capacity			lt	630	630	630	1150

MODEL				FG 600	FG 660	FG 725	FG 790
GROUP		Standby	kVA	600	660	725	790
			kW	480	528	580	632
		Prime	kVA	545	600	659	718
			kW	436	480	527	574
	Rated Current		A	784	864	948	1033
ENGINE	Engine			SD			
	Engine Model			SD27G700TLD	SD27G755TLD	SD29G843TLD	SD29G925TLD
	Number of Cylinders			V-12			
	Injection System			Direct			
	Compression Ratio			16 : 1	16 : 1	17.6 : 1	17.6 : 1
	Bore		mm	135	135	138	138
	Stroke		mm	155	155	158	158
	Displacement		lt	26.6	26.6	28.3	28.3
	Air Intake			Turbocharged Intercooler			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	100	100	125	125
	Standby Power		kW / hp	520 / 697	565 / 757	620 / 831	680 / 911
	Prime Power		kW / hp	473 / 634	514 / 689	564 / 756	618 / 828
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	151			
	Fuel Consumption (lt / h)		Full Load	125.6	135.2	143.2	156.9
			75% Load	96.7	101.4	109.2	119.2
			50% Load	64.2	76.1	73.5	79.8
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	5650 (4850)	5670 (4870)	6100 (5060)	6200 (5160)
	Width Silent Type (Open)		mm	1900 (1900)	1900 (1900)	1900 (1900)	1900 (1900)
	Length Silent Type (Open)		mm	4500 (3850)	4500 (3850)	4800 (4150)	4800 (4150)
	Height Silent Type (Open)		mm	2750 (3000)	2750 (3000)	2920 (3250)	2920 (3250)
	Fuel Tank Capacity		lt	1150	1150	1050	1050

MODEL				FG 840	FG 925	FG 1000	FG 1250
GROUP		Standby	kVA	840	925	1000	1125
			kW	672	740	800	1000
		Prime	kVA	763	840	909	1136
			kW	610	672	727	908
	Rated Current		A	1098	1210	1300	1636
ENGINE	Engine			SD			
	Engine Model			SD30G1020TLD	SD30G1115TLD	SD30G1200TLD	SD30G1580TLD
	Number of Cylinders			V-12			
	Injection System			Direct			
	Compression Ratio			17.6 : 1	17.6 : 1	17.6 : 1	17.6 : 1
	Bore		mm	138	138	138	138
	Stroke		mm	168	168	168	168
	Displacement		lt	30.1			
	Air Intake			Turbocharged Intercooler			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	125	125	125	125
	Standby Power		kW / hp	750 / 1015	820 / 1099	880 / 1179	1160 / 1554
	Prime Power		kW / hp	682 / 914	746 / 1000	800 / 1072	1055 / 1414
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	151			
	Fuel Consumption (lt / h)	Full Load		173.4	187.1	202	270
		75% Load		132.1	142.3	153	202
		50% Load		88.3	95.6	103.5	135
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	6270 (5230)	6270 (5230)	6600 (5720)	6650 (5770)
	Width Silent Type (Open)		mm	1900 (1900)	1900 (1900)	1900 (1900)	1900 (1900)
	Length Silent Type (Open)		mm	4800 (4150)	4800 (4150)	4800 (4150)	4800 (4150)
	Height Silent Type (Open)		mm	2920 (3250)	2920 (3250)	3385 (3385)	3385 (3385)
	Fuel Tank Capacity		lt	1050	1050	1050	1050

FN Series

Yangdong Engine Gensets



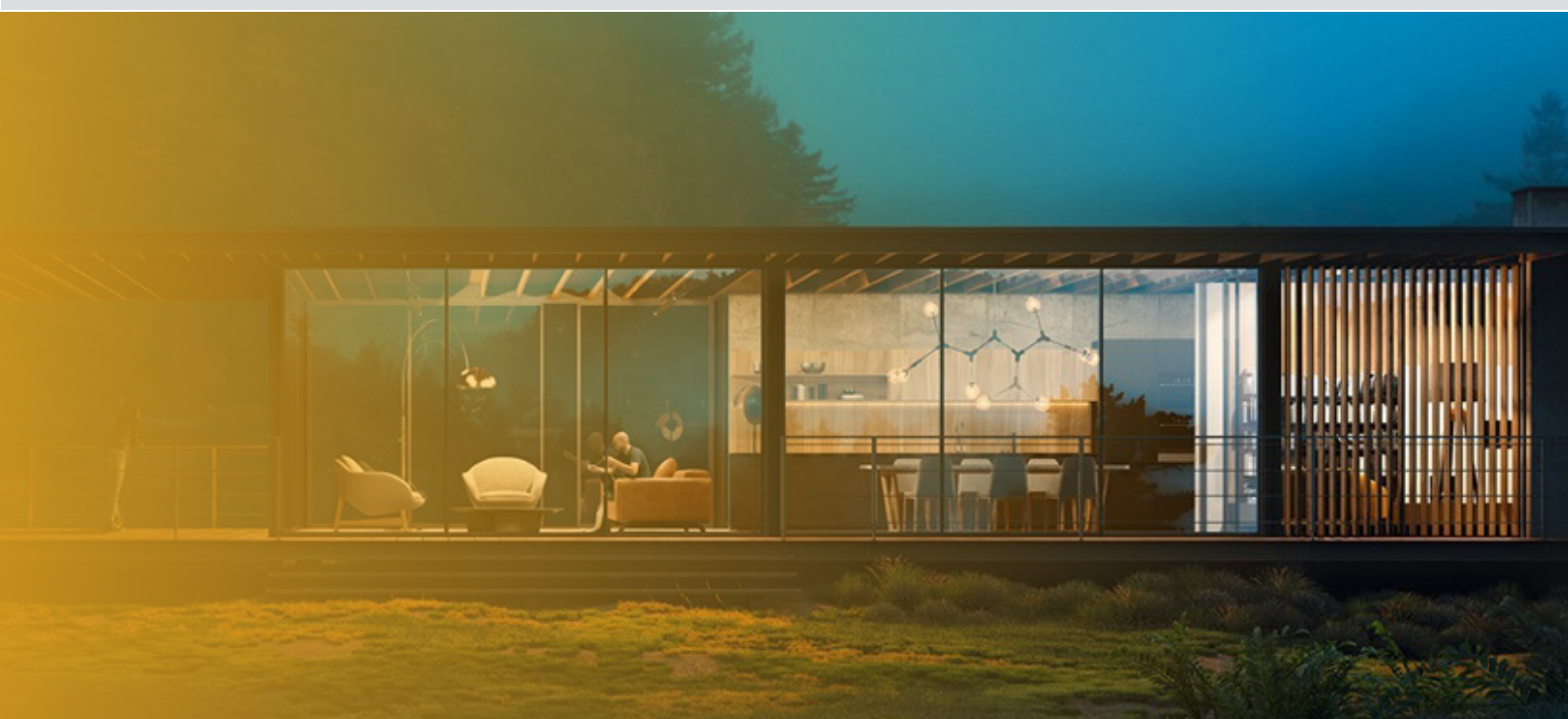
LEROY-SOMER

FULL
ALTERNATOR

10 kVA 12 kVA

200 kVA

2500 kVA



ENGINE

- Yangdong heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FN 12	FN 17	FN 22
GROUP		Standby	kVA	12	17	22
			kW	9.6	13.6	17.6
		Prime	kVA	10.9	15.4	20
			kW	8.7	12.3	16
	Rated Current		A	15.7	22.2	28.8
ENGINE	Engine			YANGDONG		
	Engine Model			YD380D	YD480D	YND485D
	Number of Cylinders			3 Inline	4 Inline	
	Injection System			Direct		
	Compression Ratio			18:1		
	Bore		mm	80	80	85
	Stroke		mm	90	90	95
	Displacement		lt	1.36	1.81	2.15
	Air Intake			Natural Aspiration		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	5.5	6.7	6.7
	Standby Power		kW / hp	12 / 16	16 / 21.4	21 / 28
	Prime Power		kW / hp	11 / 14.7	14.5 / 19.4	19 / 25.4
	Fuel Type			Euro Diesel		
	Governor System			Mechanical		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	7	7.6	9
	Fuel Consumption (lt / h)	Full Load		3.1	4.2	5.2
		75% Load		2.9	3.5	4.4
		50% Load		2.3	2.7	3.5
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	505 (415)	625 (490)	645 (515)
	Width Silent Type (Open)		mm	750 (750)	900 (900)	900 (900)
	Length Silent Type (Open)		mm	1500 (1400)	2000 (1650)	2000 (1650)
	Height Silent Type (Open)		mm	1175 (1360)	1310 (1460)	1310 (1460)
	Fuel Tank Capacity		lt	28	115	115

MODEL				FN 28	FN 33	FN 40	FN 50
GROUP		Standby	kVA	28	33	40	50
			kW	22.4	26.4	32	40
		Prime	kVA	25.4	30	36.3	45.4
			kW	20.3	24	29	36.3
	Rated Current		A	36.5	43.2	52.2	65.3
ENGINE	Engine			YANGDONG			
	Engine Model			Y490D	Y495D	Y4102D	Y4110D
	Number of Cylinders			4 Inline			
	Injection System			Direct			
	Compression Ratio			18:1			
	Bore		mm	90	95	105	105
	Stroke		mm	105	105	118	118
	Displacement		lt	2.67	2.97	4.1	4.1
	Air Intake			Natural Aspiration			
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	7.6	8	13	13
	Standby Power		kW / hp	26 / 34.9	30 / 40.2	37 / 49.6	47 / 63
	Prime Power		kW / hp	23.6 / 31.7	27.3 / 36.6	33.6 / 45	42.7 / 57.3
	Fuel Type			Euro Diesel			
	Governor System			Mechanical			Electronicol
	Cooling System			Water Cooling			
	Coolant Capacity		lt	10.7	14	16.2	15.1
	Fuel Consumption (lt / h)		Full Load	6.5	6.9	7.6	12
			75% Load	5.8	6.1	6	9.2
			50% Load	4.8	5.2	4.8	6.9
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	695 (565)	750 (600)	890 (740)	950 (790)
	Width Silent Type (Open)		mm	900 (900)	900 (900)	900 (900)	950 (950)
	Length Silent Type (Open)		mm	2000 (1650)	2200 (1850)	2200 (1850)	2300 (1900)
	Height Silent Type (Open)		mm	1310 (1460)	1470 (1560)	1470 (1560)	1520 (1660)
	Fuel Tank Capacity		lt	115	125	125	140

MODEL				FN 66	FN 77	FN 94
GROUP		Standby	kVA	66	77	94
			kW	52.8	61.6	75.2
		Prime	kVA	60	70	85.5
			kW	48	56	68.4
	Rated Current		A	86.4	100.8	123
ENGINE	Engine			YANGDONG		
	Engine Model			Y4105ZLD	YD4EZLD	Y4110ZLD
	Number of Cylinders			4 Inline		
	Injection System			Direct		
	Compression Ratio			18:1		
	Bore		mm	105	105	110
	Stroke		mm	118	118	118
	Displacement		lt	4.1	4.1	4.4
	Air Intake			Turbocharged With Intercooler		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	10.5	11	12
	Standby Power		kW / hp	61 / 81.8	69 / 92.5	88 / 118
	Prime Power		kW / hp	55.5 / 74.4	62.7 / 84.1	80 / 107
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	15.8	15.1	15.1
	Fuel Consumption (lt / h)	Full Load		12.1	12.3	20.9
		75% Load		9.7	9.9	16.3
		50% Load		7.6	7.6	12.6
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	1040 (860)	1100 (920)	1220 (1020)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2400 (2000)	2400 (2000)	2800 (2350)
	Height Silent Type (Open)		mm	1600 (1750)	1600 (1750)	1620 (1810)
	Fuel Tank Capacity		lt	170	170	195

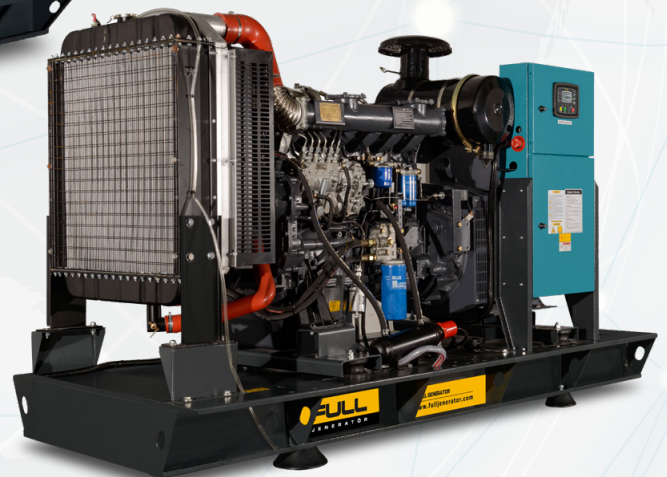
MODEL				FN 110	FN 150	FN 200
GROUP		Standby	kVA	110	150	200
			kW	88	120	160
		Prime	kVA	100	136	181
			kW	80	108	145
	Rated Current		A	144	196	260
ENGINE	Engine			YANGDONG		
	Engine Model			YD4GZLD	LR4M3L-DA	LR6M3L-D
	Number of Cylinders			4 Inline		6 Inline
	Injection System			Direct		
	Compression Ratio			18:1	17:1	17:1
	Bore		mm	110	110	110
	Stroke		mm	118	125	125
	Displacement		lt	4.4	4,75	7,13
	Air Intake			Turbocharged With Intercooler		
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	12	14	16
	Standby Power		kW / hp	99 / 133	130 / 174	180 / 241
	Prime Power		kW / hp	90 / 121	118 / 158	164 / 220
	Fuel Type			Euro Diesel		
	Governor System			Electronic		
	Cooling System			Water Cooling		
	Coolant Capacity		lt	15.1	18	26
	Fuel Consumption (lt / h)	Full Load		22,1	22,8	31,6
		75% Load		18,9	18,4	24
		50% Load		14,2	12,5	16
ALTERNATOR	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases			3		
	Voltage Regulation			±1%		
	Insulation Class			H		
	Protection Standard			IP23		
	Power Factor		Cos	0.8		
DIMENSIONS	Weight Silent Type (Open)		kg	1250 (1050)	1300 (1000)	1620 (1340)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2800 (2350)	2800 (2350)	3150 (2550)
	Height Silent Type (Open)		mm	1620 (1810)	1620 (1810)	1810 (1900)
	Fuel Tank Capacity		lt	195	195	220

FK Series

Kofo Engine Gensets



KOFO
FULL
ALTERNATOR



10 kVA

35 kVA

200 kVA

2500 kVA



ENGINE

- Kofo heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FK 35	FK 44	FK 50	FK 66	FK 80
GROUP		Standby	kVA	35	44	50	66	80
			kW	28	35.2	40	52.8	64
		Prime	kVA	31.8	40	45.5	60	72.7
			kW	25.4	32	36.4	48	58.2
	Rated Current		A	45.8	57.6	65.5	86.4	104.7
ENGINE	Engine			KOFO				
	Engine Model			MN4100DS	MN4105DS	MN4100ZDS	MN4105ZDS	MN4105ZLDS
	Number of Cylinders			4 Inline				
	Injection System			Direct				
	Compression Ratio			17 : 1	17 : 1	17 : 1	17 : 1	17 : 1
	Bore		mm	100	105	100	105	105
	Stroke		mm	115	120	115	120	120
	Displacement		lt	3.61	4.15	3.61	4.15	4.15
	Air Intake			Natural Aspiration		Turbocharged		Turbocharged Intercooled
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	13	13	13	13	13
	Standby Power		kW / hp	33 / 44,2	42 / 56.3	46 / 66.2	62 / 83,1	73 / 97.8
	Prime Power		kW / hp	30 / 40,2	38 / 50.9	42 / 60.5	56 / 75	66 / 88.4
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	16	18	16	18	18
	Fuel Consumption (lt / h)	Full Load		8,4	10.4	11.5	15	17.7
		75% Load		6.6	8.2	9.1	11.8	13.9
		50% Load		4.5	5.6	6.2	8.1	9.5
ALTERNATOR	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
DIMENSIONS	Weight Silent Type (Open)		kg	810 (650)	845 (685)	940 (770)	1045 (855)	1120 (930)
	Width Silent Type (Open)		mm	900 (900)	900 (900)	950 (950)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2200 (1850)	2200 (1850)	2300 (1900)	2400 (2000)	2400 (2000)
	Height Silent Type(Open)		mm	1470 (1560)	1470 (1560)	1520 (1660)	1600 (1750)	1600 (1750)
	Fuel Tank Capacity		lt	125	125	140	170	170

MODEL				FK 110	FK 150	FK 175	FK 200
GROUP		Standby	kVA	110	150	175	200
			kW	88	120	140	160
		Prime	kVA	100	136	160	182
			kW	80	108	128	145
	Rated Current		A	144	196	230,4	262
ENGINE	Engine			KOFO			
	Engine Model			4RT55-88D	4RT55-110D	6RT80-132D	6RT80-176DE
	Number of Cylinders			4 Inline		6 Inline	
	Injection System			Direct			
	Compression Ratio			17 : 1	17:1	17:1	17:1
	Bore		mm	110	110	110	110
	Stroke		mm	140	140	140	140
	Displacement		lt	5.32	5,32	7,98	7,98
	Air Intake			Turbocharged	Turbocharged Intercooled	Turbocharged	Turbocharged Intercooled
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	16	16	18	18
	Standby Power		kW / hp	97 / 130	129 / 173	149 / 200	194 / 260
	Prime Power		kW / hp	88 / 120	117 / 157	135 / 181	176 / 236
	Fuel Type			Euro Diesel			
	Governor System			Mechanical			Electronic
	Cooling System			Water Cooling			
	Coolant Capacity		lt	23	27	33	46
	Fuel Consumption (lt / h)		Full Load	22.5	26,2	34,7	36
			75% Load	17.7	18,4	27,7	30,6
			50% Load	12.2	14,2	20,5	21,4
ALTERNATOR	Frequency		Hz	50			
	Voltage		V	400			
	Number of Phases			3			
	Voltage Regulation			±1%			
	Insulation Class			H			
	Protection Standard			IP23			
	Power Factor		Cos	0.8			
DIMENSIONS	Weight Silent Type (Open)		kg	1320 (1130)	1430 (1180)	1650 (1400)	1720 (1470)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2800 (2350)	3150 (2550)	3150 (2550)	3150 (2550)
	Height Silent Type (Open)		mm	1620 (1810)	1810 (1900)	1810 (1900)	1810 (1900)
	Fuel Tank Capacity		lt	195	220	220	220

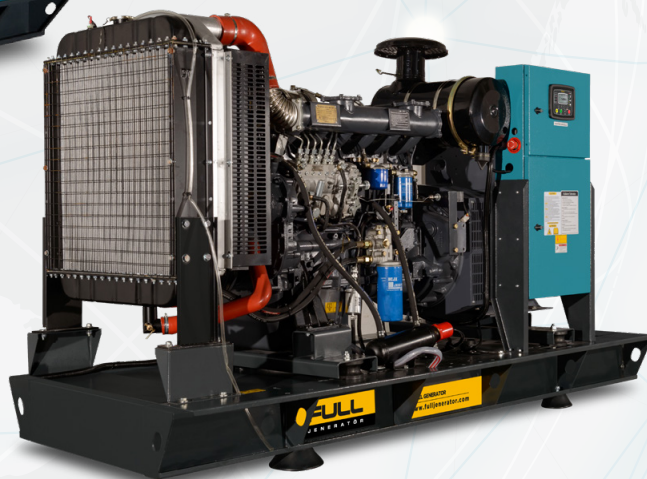
FR Series

Full Engine Gensets



FULL
M O T O R

FULL
A L T E R N A T O R



10 kVA

35 kVA

200 kVA

2500 kVA



ENGINE

- Full heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis – ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

MODEL				FR 35	FR 44	FR 50	FR 60	FR 77
GROUP		Standby	kVA	35	44	50	60	77
			kW	28	35.2	40	48	61.6
		Prime	kVA	31.8	40	45.5	54.5	70
			kW	25.4	32	36.4	43.6	56
	Rated Current			A	45.8	57.6	65.5	78.5
ENGINE	Engine			FULL				
	Engine Model			K4100-D	K4100-ZD	WD100-45	D4105-ZD	D4105-IZLD
	Number of Cylinders			4 Sıralı				
	Injection System			Direkt				
	Compression Ratio			19 : 1	19 : 1	19 : 1	17 : 1	16 : 1
	Bore		mm	100	100	100	105	105
	Stroke		mm	115	115	115	115	115
	Displacement		lt	3.61	3.61	3.61	3.93	3.93
	Air Intake			Natural Aspiration	Turbocharged			Turbocharged Intercooled
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	13	13	13	13	15
	Standby Power		kW / hp	34 / 45,6	44 / 59	49.5 / 66.3	61,6 / 82,5	72,6 / 97,3
	Prime Power		kW / hp	31 / 41,5	40 / 53.6	45 / 60.3	56 / 75	66 / 88.4
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	15	15	15	18	20
	Fuel Consumption (lt / h)		Full Load	9	12.2	13	14.5	17.5
			75% Load	6.5	9.1	9.8	11	15.2
			50% Load	4.7	6.4	6.5	7.6	9
ALTERNATOR	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
DIMENSIONS	Weight Silent Type (Open)		kg	860 (700)	895 (770)	990 (820)	1100 (900)	1180 (990)
	Width Silent Type (Open)		mm	900 (900)	900 (900)	950 (950)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2200 (1850)	2200 (1850)	2300 (1900)	2400 (2000)	2400 (2000)
	Height Silent Type (Open)		mm	1470 (1560)	1470 (1560)	1520 (1660)	1600 (1750)	1600 (1750)
	Fuel Tank Capacity		lt	125	125	140	170	170

MODEL				FR 94	FR 110	FR 125	FR 150	FR 175
GROUP		Standby	kVA	94	110	125	150	175
			kW	75.2	88	100	120	140
		Prime	kVA	85.4	100	113	136	160
			kW	68.3	80	90	108	128
	Rated Current		A	122.9	144	163	196	230.4
ENGINE	Engine			FULL				
	Engine Model			R4105-IZLD	R6105-ZD	R6105-ZLD	R6105-AZLD	R6105-IZLD
	Number of Cylinders			4 Sıralı	6 Sıralı			
	Injection System			Direkt				
	Compression Ratio			16 : 1	16 : 1	16 : 1	16 : 1	16 : 1
	Bore		mm	105				
	Stroke		mm	125	130	130	130	135
	Displacement		lt	4.33	6.49	6.49	6.49	7.1
	Air Intake			Turbocharged Intercooled	Turbocharged		Turbocharged Intercooled	
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	15	18	18	18	18
	Standby Power		kW / hp	87 / 116	102 / 137	114 / 153	134 / 179	155 / 207
	Prime Power		kW / hp	79 / 106	92,7 / 124	104 / 139	122 / 163	141 / 189
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	23	23	23	23	25
	Fuel Consumption (lt / h)	Full Load		19.1	22.2	25.6	31	33.5
		75% Load		15	16.7	19.2	23.3	25.2
		50% Load		13	11.1	12.8	15.5	17
ALTERNATOR	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
DIMENSIONS	Weight Silent Type (Open)		kg	1250 (1050)	1496 (1230)	1540 (1290)	1595 (1350)	1660 (1410)
	Width Silent Type (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent Type (Open)		mm	2800 (2350)	3150 (2550)	3150 (2550)	3150 (2550)	3150 (2550)
	Height Silent Type (Open)		mm	1810 (1900)	1810 (1900)	1810 (1900)	1810 (1900)	1810 (1900)
	Fuel Tank Capacity		lt	195	220	220	220	220

Gasoline and Diesel

Portable Generators





Used Appliances		Power (W)	Used Appliances		Power (W)
	Television	400		Laptop	150
	Television LCD	650		Air Conditioning (A ++ energy class)	2.000
	Refrigerator	1.000		Sound System	500
	Oven	3.000		Hair Dryer	2.500
	Dishwasher	2.000		Fan	400
	Washing Machine (A ++ energy class)	2.800		Combi	170
	Laundry Dryer (Heater)	3.000		Security System	1.000
	Electric heater	2.000		Bulb (Fluorescent)	150
	Iron	2.400		Saving Bulb	20
	Vacuum cleaner	3.000		Industrial Production Machine 1 Hp	1.500
	Coffee Machine	1.000		Well Pump (1 Hp)	1.500
	Deep freeze	1.000		Drill	1.000
	Computer	700	NOTE: The stated values are for reference purposes. Real-time measurements are recommended for your actual power needs.		

FGL3500L



GENERATOR		
Maximum Power	kW / kVA	2,8 / 3,5
Continuous Power	kW / kVA	2,5 / 3,12
Rated Current	A	10,8
Number of phases		1 (Single phase)
Output Voltage	V	230
ENGINE		
Starting System		Recoil
Fuel Tank Capacity	(lt)	17
Fuel Consumption	(lt/h)	1,3
Oil Capacity	(lt)	0,6
OTHER		
Noise Level	(dBA-7m)	68
Weight	(kg)	46
Dimensions (LxDxH)	(mm)	620x470x530

FGL3500LE



GENERATOR		
Maximum Power	kW / kVA	2,8 / 3,5
Continuous Power	kW / kVA	2,5 / 3,12
Rated Current	(A)	10,8
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	17
Fuel Consumption	(lt/h)	1,3
Oil Capacity	(lt)	0,6
OTHER		
Noise Level	(dBA-7m)	68
Weight	(kg)	50
Dimensions (LxDxH)	(mm)	620x470x530

FGL5000LE



GENERATOR		
Maximum Power	kW / kVA	3,8 / 4,75
Continuous Power	kW / kVA	3,5 / 4,38
Rated Current	(A)	15,2
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	17
Fuel Consumption	(lt/h)	1,3
Oil Capacity	(lt)	0,6
OTHER		
Noise Level	(dBA-7m)	72
Weight	(kg)	54
Dimensions (LxDxH)	(mm)	620x470x530

FGL8000LE



GENERATOR		
Maximum Power	kW / kVA	6,5 / 8,1
Continuous Power	kW / kVA	6 / 7,5
Rated Current	(A)	25,5
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	28
Fuel Consumption	(lt/h)	2,6
Oil Capacity	(lt)	1,1
OTHER		
Noise Level	(dBA-7m)	75
Weight	(kg)	78
Dimensions (LxDxH)	(mm)	720x530x610

FGL8000LE3



GENERATOR		
Maximum Power	kW / kVA	6,5 / 8,1
Continuous Power	kW / kVA	6 / 7,5
Rated Current	(A)	10,8
Number of phases		3 (Three-phase)
Output Voltage	(V)	230 / 400
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	28
Fuel Consumption	(lt/h)	2,6
Oil Capacity	(lt)	1,1
OTHER		
Noise Level	(dBA-7m)	75
Weight	(kg)	78
Dimensions (LxDxH)	(mm)	720x530x610

FGL10000LE



GENERATOR		
Maximum Power	kW / kVA	8 / 10
Continuous Power	kW / kVA	7,5 / 9,4
Rated Current	(A)	32,6
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	28
Fuel Consumption	(lt/h)	3
Oil Capacity	(lt)	1,3
OTHER		
Noise Level	(dBA-7m)	75
Weight	(kg)	87
Dimensions (LxDxH)	(mm)	720x530x610

FGL10000LE3



GENERATOR		
Maximum Power	kW / kVA	8 / 10
Continuous Power	kW / kVA	7,5 / 9,4
Rated Current	(A)	13,5
Number of phases		3 (Three-phase)
Output Voltage	(V)	230 / 400
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	28
Fuel Consumption	(lt/h)	3
Oil Capacity	(lt)	1,3
OTHER		
Noise Level	(dBA-7m)	75
Weight	(kg)	87
Dimensions (LxDxH)	(mm)	720x530x610



FDL6500LE



GENERATOR		
Maximum Power	kW / kVA	5 / 6,2
Continuous Power	kW / kVA	4,5 / 5,6
Rated Current	(A)	19,6
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	12,5
Fuel Consumption	(lt/h)	1,6
Oil Capacity	(lt)	1,65
OTHER		
Noise Level	(dBA-7m)	82
Weight	(kg)	112
Dimensions (LxDxH)	(mm)	800x520x600

FDL6500LE3



GENERATOR			
Maximum Power	kW / kVA	5 / 6,2	
Continuous Power	kW / kVA	4,5 / 5,6	
Rated Current	(A)	8	
Number of phases		3 (Three-phase)	
Output Voltage	(V)	230 / 400	
ENGINE			
Starting System		Recoil / Electric	
Fuel Tank Capacity	(lit)	12,5	
Fuel Consumption	(lit/h)	1,6	
Oil Capacity	(lit)	1,65	
OTHER			
Noise Level	(dBA-7m)	82	
Weight	(kg)	112	
Dimensions (LxDxH)	(mm)	800x520x600	

FDL9000LE



GENERATOR		
Maximum Power	kW / kVA	6,8 / 8,5
Continuous Power	kW / kVA	6,3 / 7,9
Rated Current	(A)	27,4
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	12,5
Fuel Consumption	(lt/h)	2
Oil Capacity	(lt)	1,65
OTHER		
Noise Level	(dBA-7m)	86
Weight	(kg)	126
Dimensions (LxDxH)	(mm)	800x520x600

FDL9000LE3



GENERATOR		
Maximum Power	kW / kVA	6,8 / 8,5
Continuous Power	kW / kVA	6,3 / 7,9
Rated Current	(A)	11,4
Number of phases		3 (Three-phase)
Output Voltage	(V)	230 / 400
ENGINE		
Starting System		Recoil / Electric
Fuel Tank Capacity	(lt)	12,5
Fuel Consumption	(lt/h)	2
Oil Capacity	(lt)	1,65
OTHER		
Noise Level	(dBA-7m)	86
Weight	(kg)	126
Dimensions (LxDxH)	(mm)	800x520x600

FDL9000SC



GENERATOR		
Maximum Power	kW / kVA	6,8 / 8,5
Continuous Power	kW / kVA	6,3 / 7,9
Rated Current	(A)	27,4
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Electric
Fuel Tank Capacity	(lt)	25
Fuel Consumption	(lt/h)	2
Oil Capacity	(lt)	1,65
OTHER		
Noise Level	(dB(A-7m)	71
Weight	(kg)	160
Dimensions (LxDxH)	(mm)	900x520x700

FDL9000SC3



GENERATOR		
Maximum Power	kW / kVA	6,8 / 8,5
Continuous Power	kW / kVA	6,3 / 7,9
Rated Current	(A)	11,4
Number of phases		3 (Three-phase)
Output Voltage	(V)	230 / 400
ENGINE		
Starting System		Electric
Fuel Tank Capacity	(lt)	25
Fuel Consumption	(lt/h)	2
Oil Capacity	(lt)	1,65
OTHER		
Noise Level	(dBA-7m)	71
Weight	(kg)	160
Dimensions (LxDxH)	(mm)	900x520x700

FDL13500SE



GENERATOR		
Maximum Power	kW / kVA	11 / 13,75
Continuous Power	kW / kVA	10 / 12,5
Rated Current	(A)	43
Number of phases		1 (Single phase)
Output Voltage	(V)	230
ENGINE		
Starting System		Electric
Fuel Tank Capacity	(lt)	25
Fuel Consumption	(lt/h)	3,5
Oil Capacity	(lt)	3
OTHER		
Noise Level	(dBA-7m)	83
Weight	(kg)	190
Dimensions (LxDxH)	(mm)	910x578x668

FDL13500SE3



GENERATOR		
Maximum Power	kW / kVA	11 / 13,75
Continuous Power	kW / kVA	10 / 12,5
Rated Current	(A)	18
Number of phases		3 (Three-phase)
Output Voltage	(V)	230 / 400
ENGINE		
Starting System		Electric
Fuel Tank Capacity	(lt)	25
Fuel Consumption	(lt/h)	3,5
Oil Capacity	(lt)	3
OTHER		
Noise Level	(dB(A-7m)	83
Weight	(kg)	190
Dimensions (LxDxH)	(mm)	910x578x668

FDL13500SC



GENERATOR			
Maximum Power	kW / kVA	11 / 13,75	
Continuous Power	kW / kVA	10 / 12,5	
Rated Current	(A)	43	
Number of phases		1 (Single phase)	
Output Voltage	(V)	230	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	55	
Fuel Consumption	(lt/h)	3,5	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	69	
Weight	(kg)	295	
Dimensions (LxDxH)	(mm)	1160x675x945	

FDL13500SC3



GENERATOR			
Maximum Power	kW / kVA	11 / 13,75	
Continuous Power	kW / kVA	10 / 12,5	
Rated Current	(A)	18	
Number of phases		3 (Three-phase)	
Output Voltage	(V)	230 / 400	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	55	
Fuel Consumption	(lt/h)	3,5	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	69	
Weight	(kg)	295	
Dimensions (LxDxH)	(mm)	1160x675x945	

FDL16500SC



GENERATOR			
Maximum Power	kW / kVA	13 / 16,25	
Continuous Power	kW / kVA	12 / 15	
Rated Current	(A)	52	
Number of phases		1 (Single phase)	
Output Voltage	(V)	230	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	50	
Fuel Consumption	(lt/h)	4	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	85	
Weight	(kg)	295	
Dimensions (LxDxH)	(mm)	1145x750x975	

FDL16500SC3



GENERATOR			
Maximum Power	kW / kVA	13 / 16,25	
Continuous Power	kW / kVA	12 / 15	
Rated Current	(A)	21,7	
Number of phases		3 (Three-phase)	
Output Voltage	(V)	230	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	50	
Fuel Consumption	(lt/h)	4	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	85	
Weight	(kg)	297	
Dimensions (LxDxH)	(mm)	1145x750x975	

FDL16500SE



GENERATOR			
Maximum Power	kW / kVA	13 / 16,25	
Continuous Power	kW / kVA	12 / 15	
Rated Current	(A)	52	
Number of phases		1 (Single phase)	
Output Voltage	(V)	230	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	50	
Fuel Consumption	(lt/h)	4	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	85	
Weight	(kg)	195	
Dimensions (LxDxH)	(mm)	925x590x800	

FDL16500SE3



GENERATOR			
Maximum Power	kW / kVA	13 / 16,25	
Continuous Power	kW / kVA	12 / 15	
Rated Current	(A)	21,7	
Number of phases		3 (Three-phase)	
Output Voltage	(V)	230	
ENGINE			
Starting System		Electric	
Fuel Tank Capacity	(lt)	50	
Fuel Consumption	(lt/h)	4	
Oil Capacity	(lt)	3	
OTHER			
Noise Level	(dBA-7m)	85	
Weight	(kg)	197	
Dimensions (LxDxH)	(mm)	925x590x800	

When using a generator

- Before purchasing a generator, measure installed power and determine exactly your needs.
- Check the fuel level before starting your generator.
- Check the oil level and air filter. Never try to operate your generator without oil or a low oil level.
- Never operate your generator inside your home/office or any indoor environment. The gas coming out of the generator exhaust is harmful and dangerous for human health.
- For portable generators, do not plug your generator directly into your home sockets. Be sure to use a pole reverser switch.
- Keep your generator away from inflammable and flammable materials and devices such as stoves, ovens, and heaters.
- Do not approach the generator with any flammable material in your hand.
- Do not touch hot parts such as the engine and exhaust while the generator is running.
- Strictly follow the periodic maintenance instructions specified in user and installation manuals.
- Run your portable generator for 10-15 minutes in certain periods even if there is no power outage.

Provide an annual periodic maintenance agreement with authorized services for your diesel generators.

- Make sure to have a fire extinguisher close to your generator.
- Check the energy transmission cables regularly, if there are worn cables, replace them.
- In case of a problem with your generator, always consult an authorized service.

D 300

Web based Next Generation Controller



SPECIFICATIONS

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable service languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

COMMUNICATION

- USB Device
- RS-232 (2400-57600baud)
- J1939-CANBUS
- Geo-locating through GSM
- GPS support (RS-232)
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU
- Modbus TCP/IP

Generator Glossary



Three-phase Generator

Generator with 400 Volt output (European Standards), consisting of 3 phases and a neutral, with 400V between phases and 230V between phase and neutral.

Single-phase Generator

Generator with one phase and neutral output. The output voltage is 220V for Europe and Turkey.

Contactor

Switch used for the transfer of electrical energy inside the automatic transfer panel.

Kilowatt

One thousand Watts is one kilowatt, abbreviated kW. That's a measure of power.

Voltage (V)

Voltage is the pressure from an electrical circuit's power source that pushes charged electrons (current) through a conducting loop, enabling them to do work such as illuminating light. In brief, voltage = pressure, and it is measured in volts (V).

kVA

Kilo Volt-Ampere is the rated power of generators.

Ampere (A)

The measure of current intensity. The number of electrons that pass through a cross-section of a wire per unit **time**.

Generator's Rated Power

Standby, Prime or Continuous power of a generator in kVA.

Alternative Current (AC)

An electric current periodically reversing direction and changing its magnitude continuously with time depending on a constant magnetic field.

Direct Current (DC)

An electric current flowing in one direction only and constant in value.

Alternator

A device converting mechanical energy into electrical energy. It is rotated by a driving machine.

Ampere Hour (Our)

An Ampere Hour is the amount of energy charge in a battery that allows one ampere/1000 mAh of current to flow in one hour.

Battery Charger

A device for recharging the battery.

Frequency (Hz)

The number of cycles per second in an AC sine wave.

Governor

Component controlling the engine speed mechanically or electronically.

Horse Power (hp)

Mechanical or electrical power measurement unit. 1 Hp = 0.746 kW.

Manual Generator

Manually operated generator.

Automatic Generator

A back-up electrical system that operates automatically. Within seconds of a utility outage, an automatic transfer switch senses the power loss, commands the generator to start, and then transfers the electrical load to the generator. After utility power returns, the automatic transfer switch transfers the electrical load back to the utility and signals the standby generator to shut off.

Automatic Voltage Regulator (AVR)

A static voltage regulator automatically performs the necessary adjustments to keep the generator voltage at the nominal level.

Overload

An overload in a generator generally happens when extreme numbers of appliances are plugged into the generator. This causes the generator to exceed its designed power output.

Continuous power

Continuous power generation under a fixed load. The load can be 100% on average. It must not be overloaded.

Prime power

Continuous power generation under variable load. Its average load must be 70%. It can be overloaded by 10% for 1 hour every 12 hours.

Standby power

Power generation for a limited period under variable load. It can work 200 hours a year under 70% load on average. It is used as a standby power supply in case of municipal power failure. It must not be overloaded.

Generator rpm

The number of rotations of the generator in one minute. Portable generators are generally 3000 rpm and diesel generators 1500 or 1800 rpm depending on the output frequency.

Portable Generator

Gasoline or Diesel Generators that can be easily moved from place-to-place.

Installed load

Installed load of the facility where the generator will be used. The minimum generator capacity must be capable of supplying this load.

Automatic Transfer Switch (ATS)

ATS is a device that transfers a power supply from its primary source automatically to a backup generator when it senses a failure or outage occurring in the primary source until utility power is restored.

Control panel

A panel where the indicators and control equipment of the generator is located.

Sound Proof Canopy

A cabinet protecting generator set against external conditions and reducing the noise level in accordance with applied standards.

Altitude

Defines the height above sea level where the generator will be utilized. As the altitude increases, the amount of oxygen decreases, resulting in power loss specified by the engine manufacturers.

Synchronous Generators

Generator groups that automatically synchronize the mains and loads with functions such as load backup, load sharing, and fault backup.

Bore

The inner diameter of the cylinder.

Stroke

Top and bottom level of the piston movement inside the cylinder.

Displacement

Refers to the total volume of engine cylinders in liters.

Compression ratio

Compression of the air entering the cylinder at a certain level in proportion to the cylinder volume.

