

FULL

GENERATOR

FC Series

Cummins Engine



15 KVA

30 KVA

1000 KVA

2500 KVA

SPECIFICATIONS

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

- IP 21-23 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

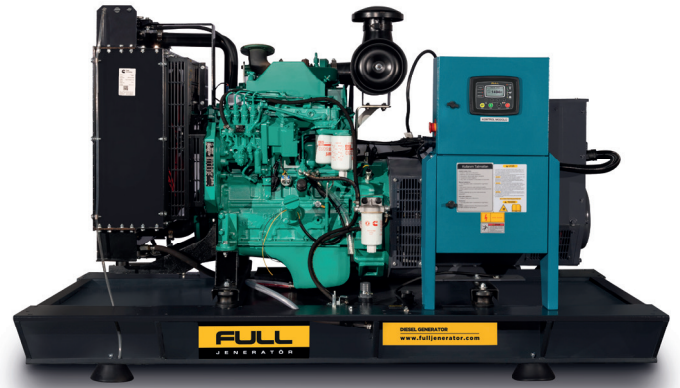
- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency 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

FC Series

Cummins Engine



MODEL		FC 30	FC 44	FC 63	FC 88	
GROUP	Stand By	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	Mechanical	Electronic	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 (Open)	Kg	880 (725)	1050 (890)	1160 (970)	1270 (1076)
	Width Silent (Open)	mm	950 (950)	950 (950)	1000 (1000)	1000 (1000)
	Length Silent (Open)	mm	2300 (1900)	2300 (1900)	2400 (2000)	2800 (2350)
	Height Silent (Open)	mm	1400 (1600)	1400 (1600)	1500 (1600)	1500 (1750)
	Fuel Tank Capacity	lt	140	140	170	195

- 1) Standby power: The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage. Overloading isn't permissible.
- 2) Prime Power: The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

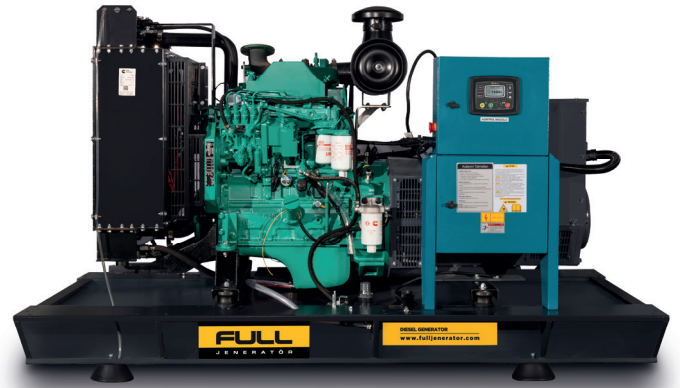
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MODEL			FC 110	FC 150	FC 175	FC 200
GROUP	Stand By	kVA	110	150	175	200
		kW	88	120	140	160
	Prime	kVA	100	136	159	182
		kW	80	109	127.2	145.4
	Rated Current	A	144	196	229	262
ENGINE	Engine		CUMMINS			
	Engine Model		6BT5.9-G2	6BTAA5.9-G2	6BTAA5.9-G12	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 & Charge Air Cooled	Turbocharged & Charge Air Cooled	Turbocharged & Aftercooled
	Speed (RPM)	rpm	1500			
	Oil Capacity	lt	16.4	16.4	16.4	27.6
	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 (Open)	Kg	1375 (1181)	1550 (1311)	1595 (1356)	1810 (1470)
	Width Silent (Open)	mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent (Open)	mm	2800 (2350)	3150 (2550)	3150 (2550)	3150 (2550)
	Height Silent (Open)	mm	1500 (1750)	1700 (1850)	1700 (1850)	1700 (1850)
	Fuel Tank Capacity	lt	195	220	220	220

FC Series

Cummins Engine



MODEL		FC 220	FC 250	FC 275	FC 325		
GROUP	Stand By	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	425	
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 After Cooled	
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	23.8	30	34	36
	Standby Power		Kw / Hp	203 / 272	250 / 325	250 / 335	291 / 390
	Prime Power		Kw / Hp	183 / 245	230 / 308	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 (Open)		Kg	2190 (1850)	2198 (1858)	2780 (2440)	3385 (2955)
	Width Silent (Open)		mm	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	Length Silent (Open)		mm	3500 (2900)	3500 (2900)	3500 (2900)	3900 (3275)
	Height Silent (Open)		mm	1850 (2100)	1850 (2100)	1850 (2100)	2050 (2250)
	Fuel Tank Capacity		lt	360	360	360	520

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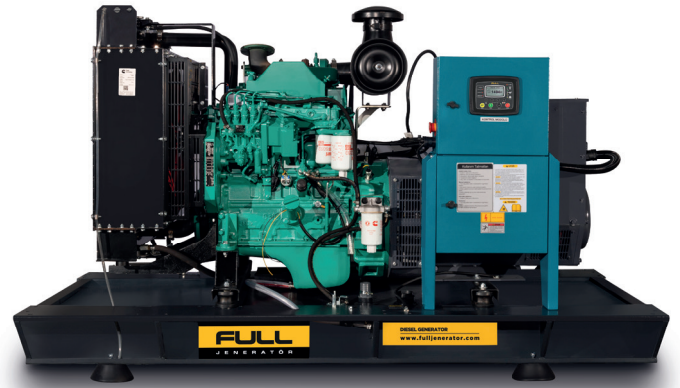
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MODEL			FC 350	FC 385	FC 420	FC 450	
GROUP	Stand By	kVA	350	385	420	450	
		kW	280	308	336	360	
	Prime	kVA	318	350	382	409	
		kW	255	280	306	327	
Rated Current		A	458	505	550	588	
ENGINE	Engine		CUMMINS				
	Engine Model		NTA855-G1B	NTA855-G2A	NTAA855-G7	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 / 500
	Fuel Type		Euro Diesel				
	Governor System		Electronic	Mechanical	Electronic	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 (Open)		Kg	3190 (2760)	3585 (3095)	3765 (3275)	3765 (3290)
	Width Silent (Open)		mm	1200 (1200)	1200 (1200)	1500 (1500)	1500 (1500)
	Length Silent (Open)		mm	3900 (3275)	3900 (3275)	4000 (3300)	4000 (3300)
	Height Silent (Open)		mm	2050 (2250)	2050 (2250)	2200 (2500)	2200 (2500)
	Fuel Tank Capacity		lt	520	520	630	630

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MODEL		FC 500	FC 550	FC 650	FC 690		
GROUP	Stand By	kVA	500	550	650	690	
		kW	400	440	520	552	
	Prime	kVA	454	500	590	630	
		kW	363	400	472	505	
Rated Current	A	653	720	849	910		
ENGINE	Engine	CUMMINS					
	Engine Model	QSZ13-G3	KTA19-G3A	KTAA19-G6	KTAA19-G6A		
	Number of Cylinders	6 Inline					
	Injection System	Direct					
	Compression Ratio	17 : 1	13.9 : 1	13 : 1	13 : 1		
	Bore	mm	130	159	159	159	
	Stroke	mm	163	159	159	159	
	Displacement	lt	13	19	19	19	
	Air Intake		Turbocharged Air cooled	Turbocharged & Intercooled	Turbocharged & Aftercooled		
	Speed (RPM)	rpm	1500				
	Oil Capacity	lt	40	38	38	38	
	Standby Power	Kw / Hp	470 / 629	504 / 675	570 / 770	610 / 825	
	Prime Power	Kw / Hp	450 / 603	448 / 600	518 / 700	554 / 750	
	Fuel Type		Euro Diesel				
	Governor System		Electronic				
	Cooling System		Water Cooling				
	Coolant Capacity	lt	60	75	75	75	
	Fuel Consumption (lt / h)	Full Load	101	107	140	148.3	
		75% Load	74.2	82.3	104.9	112.7	
50% Load		49	56.4	74.5	76.4		
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 (Open)	Kg	4100 (3625)	5085 (4410)	5190 (4510)	5200 (4530)	
	Width Silent (Open)	mm	1600 (1600)	1600 (1600)	1600 (1600)	1700 (1700)	
	Length Silent (Open)	mm	4600 (3900)	4600 (3900)	4600 (3900)	4700 (4000)	
	Height Silent (Open)	mm	2500 (2900)	2500 (2900)	2500 (2900)	2500 (2900)	
	Fuel Tank Capacity	lt	1100	1100	1100	1450	

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MODEL			FC 750	FC 790	FC 825	FC 900	FC 1000
GROUP	Stand By	kVA	750	790	825	900	1000
		kW	600	632	660	720	800
	Prime	kVA	681	718	750	818	909
		kW	545	574	600	654	727
	Rated Current	A	980	1033	1080	1177	1308
ENGINE	Engine		CUMMINS				
	Engine Model		QSK19-G11	KTA38-G1	KTA38-G2	KTA38-G2B	KTA38-G2A
	Number of Cylinders		6 Inline	V-12			
	Injection System		Direct				
	Compression Ratio		15 : 1	14.5 : 1	14.5 : 1	14.5 : 1	14.5 : 1
	Bore	mm	159	159	159	159	159
	Stroke	mm	159	159	159	159	159
	Displacement	lt	19	38	38	38	38
	Air Intake		Turbocharged and Charge Air Cooled	Turbocharged & Aftercooled			
	Speed (RPM)	rpm	1500				
	Oil Capacity	lt	80	135	135	135	135
	Standby Power	Kw / Hp	667 / 894	701 / 953	731 / 980	789 / 1057	895 / 1199
	Prime Power	Kw / Hp	606 / 813	634 / 862	664 / 890	711 / 953	813 / 1089
	Fuel Type		Euro Diesel				
	Governor System		Electronic				
	Cooling System		Water Cooling				
	Coolant Capacity	lt	42	350	350	350	350
Fuel Consumption (lt / h)	Full Load	153	160	167	176.9	202.3	
	75% Load	116	123	128	133.3	153.7	
	50% Load	83	87	90	91.3	103.1	
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 (Open)	Kg	5750 (4900)	9200 (8050)	9250 (8100)	9300 (8150)	9350 (8200)
	Width Silent (Open)	mm	1900 (1900)	2200 (2200)	2200 (2200)	2200 (2200)	2200 (2200)
	Length Silent (Open)	mm	4800 (4150)	6200 (5700)	6200 (5700)	6200 (5700)	6200 (5700)
	Height Silent (Open)	mm	2700 (3150)	2800 (3200)	2800 (3200)	2800 (3200)	2800 (3200)
	Fuel Tank Capacity	lt	1350	1500	1600	1600	1600



MODEL			FC-1100	FC-1250	FC-1400	FC-1650	
GROUP	Stand By	kVA	1100	1250	1400	1650	
		kW	880	1000	1120	1320	
	Prime	kVA	1000	1136	1272	1500	
		kW	800	908	1018	1200	
Rated Current		A	1440	1635	1832	2160	
ENGINE	Engine		CUMMINS				
	Engine Model		KTA38-G5	KTA38-G9	KTA50-G3	KTA50-G8	
	Number of Cylinders		6 Inline				
	Injection System		Direct				
	Compression Ratio		13.9 : 1	13.9 : 1	13.9 : 1	14.9 : 1	
	Bore		mm	159	159	159	159
	Stroke		mm	159	159	159	159
	Displacement		lt	38	38	50.3	50.3
	Air Intake			Turbocharged Air cooled	Turbocharged & Intercooled	Turbocharged & Aftercooled	
	Speed (RPM)		rpm	1500			
	Oil Capacity		lt	135	135	177	204
	Standby Power		Kw / Hp	970 / 1300	1089 / 1460	1227 / 1645	1429 / 1915
	Prime Power		Kw / Hp	880 / 1180	990 / 1327	1150 / 1541	1200 / 1608
	Fuel Type			Euro Diesel			
	Governor System			Electronic			
	Cooling System			Water Cooling			
	Coolant Capacity		lt	60	75	75	75
	Fuel Consumption (lt / h)		Full Load	209	256	261	289
75% Load			161	196	199	222	
50% Load			113	137	139	155	
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 (Open)		Kg	10220 (9070)	1045 (9300)	11600 (10470)	12200 (11000)
	Width Silent (Open)		mm	2200 (2200)	2200 (2200)	2200 (2200)	2200 (2200)
	Length Silent (Open)		mm	6200 (5700)	6200 (5700)	6200 (5700)	6200 (5700)
	Height Silent (Open)		mm	2800 (3200)	2800 (3200)	2800 (3200)	2800 (3200)
	Fuel Tank Capacity		lt	1600	1600	1600	1600

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FULL

GENERATOR

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 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
- Multiple automatic exerciser
- 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



Abdurrahmangazi Mah. İmamoğlu Sok.
No:6/C 34887 Sancaktepe / İSTANBUL

- ☎ 0850 222 86 28
- ☎ +90 216 561 10 03
- ✉ full@topcular.com
- 📷 full_jenerator
- 📘 fullgenerator
- 📺 full_jenerator



www.fulljenerator.com