



# FP Series

## Perkins Engine



10 KVA

11125 KVA

2500 KVA

## SPECIFICATIONS

### ENGINE

- PERKINS heavy duty diesel engine
- 12V / 24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical 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

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## Perkins Engine



MODEL			FP 10	FP 17	FP 22	FP 33	FP 50	
GROUP	Stand By	kVA	10	17	22	33	50	
		kW	8	13.6	17.6	26.4	40	
	Prime	kVA	9.1	15.4	20	30	45	
		kW	7.2	12.3	16	24	36	
Rated Current		A	13.1	22.1	28.8	43.2	65	
ENGINE	Engine		PERKINS					
	Engine Model		403A-11G	403A-15G2	404A-22G1	1103A-33G	1103A-33TG1	
	Number of Cylinders		3 Inline	3 Inline	4 Inline	3 Inline	3 Inline	
	Injection System		Indirect	Indirect	Indirect	Direct	Direct	
	Compression Ratio		23 : 1	22.5 : 1	23.3 : 1	19.25 : 1	17.3 : 1	
	Bore		mm	77	84	84	105	105
	Stroke		mm	81	90	100	127	127
	Displacement		lt	1.1	1.49	2.21	3.3	3.3
	Air Intake			Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Turbocharged
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	5	6	10.6	8.3	7.9
	Standby Power		Kw / Hp	9.5 / 12.9	15 / 20.4	20.6 / 27.8	31 / 42.1	45.6 / 61.6
	Prime Power		Kw / Hp	8.6 / 11.7	14 / 19	18.7 / 25.2	28.2 / 38.3	41.3 / 56
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	5.5	6	7	10.2	10.2
Fuel Consumption (lt / h)		Full Load	3	4.3	5.3	7.2	10.8	
		75% Load	2.3	3.1	4	5.6	8.2	
		50% Load	1.7	2.24	2.9	4	5.8	
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 (Open)		Kg	595 (465)	655 (525)	720 (590)	980 (825)	1100 (940)
	Width Silent (Open)		mm	700 (900)	900 (900)	900 (900)	900 (900)	950 (950)
	Length Silent (Open)		mm	1250 (1250)	2000 (1650)	2000 (1650)	2200 (1850)	2300 (1900)
	Height Silent (Open)		mm	1165 (1350)	1200 (1400)	1200 (1400)	1350 (1500)	1400 (1600)
	Fuel Tank Capacity		lt	28	115	115	125	140

- 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.

Topçular A.Ş. reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.





**Perkins®**

**LEROY-SOMER™**

**FULL**  
ALTERNATOR

MODEL			FP 66	FP 72	FP 88	FP 110	FP 150	
<b>GROUP</b>	Stand By	kVA	66	72	88	110	150	
		kW	52.8	57.6	70.4	88	120	
	Prime	kVA	60	65.4	80	100	136	
		kW	48	52.3	64	80	110	
Rated Current		A	86.4	94	115.2	144	195	
<b>ENGINE</b>	Engine		PERKINS					
	Engine Model		1103A-33TG2	1104A-44TG1	1104A-44TG2	1104C-44TAG2	1106A-70TG1	
	Number of Cylinders		3 Inline	4 Inline	4 Inline	4 Inline	6 Inline	
	Injection System		Direct					
	Compression Ratio		17.25 : 1	17.25 : 1	17.25 : 1	18.2 : 1	18.2 : 1	
	Bore		mm	105				
	Stroke		mm	127	127	127	127	135
	Displacement		lt	3.3	4.4	4.4	4.4	7.1
	Air Intake			Turbocharge & Air To Air Cooled				Turbocharge
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	8	8	8	8	18
	Standby Power		Kw / Hp	60.5 / 82	65.6 / 88.5	80.7 / 109.8	103 / 138	135.8 / 183.5
	Prime Power		Kw / Hp	55 / 74	59.6 / 80.5	73.4 / 99.8	93.6 / 125.5	122.7 / 166
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	10.2	13	13	13	22
	Fuel Consumption (lt / h)		Full Load	14	14.6	18.5	22	30.1
			75% Load	10.4	11	14.2	16.9	21.9
			50% Load	7.2	8	9.8	11.1	15.2
<b>ALTERNATOR</b>	Frequency		Hz	50				
	Voltage		V	400				
	Number of Phases			3				
	Voltage Regulation			±1%				
	Insulation Class			H				
	Protection Standard			IP23				
	Power Factor		Cos	0.8				
<b>DIMENSIONS</b>	Weight Silent (Open)		Kg	1200 (1030)	1280 (1100)	1350 (1160)	1480 (1290)	1890 (1650)
	Width Silent (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent (Open)		mm	2400 (2000)	2400 (2000)	2800 (2350)	2800 (2350)	3150 (2550)
	Height Silent (Open)		mm	1500 (1700)	1500 (1700)	1500 (1750)	1500 (1750)	1700 (1850)
	Fuel Tank Capacity		lt	170	170	195	195	220

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		MODEL	FP 165	FP 200	FP 220	FP 250	FP 275	
GROUP	Stand By	kVA	165	200	220	250	275	
		kW	132	160	176	200	220	
	Prime	kVA	150	182	200	227	250	
		kW	120	145	160	182	200	
Rated Current		A	216	262	288	327	360	
ENGINE	Engine		PERKINS					
	Engine Model		1106A-70TAG2	1106A-70TAG3	1106A-70TAG4	1206A-E70TTAG2	1206A-E70TTAG3	
	Number of Cylinders		6 Inline					
	Injection System		Direct					
	Compression Ratio		18.2 : 1	16 : 1	16 : 1	17 : 1	15.8:1	
	Bore		mm	105	105	105	105	
	Stroke		mm	135	135	135	135	
	Displacement		lt	7.1	7.1	7.1	7.1	
	Air Intake		Turbocharged & Air Charge Cooled			Turbocharged Aftercooled		
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	18	16.5	18	16.5	16.5
	Standby Power		Kw / Hp	149.1 / 202	180.2 / 243.5	196.3 / 265	226 / 303	248 / 333
	Prime Power		Kw / Hp	136 / 184	162.7 / 220	178.9 / 242	204 / 273	226 / 303
	Fuel Type		Euro Diesel					
	Governor System		Mechanical			Electronic		
	Cooling System		Water Cooling					
	Coolant Capacity		lt	22	22	22	25	30
	Fuel Consumption (lt / h)		Full Load	33.2	41.5	45.8	50.6	57
			75% Load	24.5	31.8	34.7	37.9	41.5
50% Load			16.2	20.2	23.1	25.2	28.1	
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	1950 (1710)	2190 (1850)	2220 (1890)	2500 (2070)	2790 (2360)
	Width Silent (Open)		mm	1000 (1000)	1000 (1000)	1000 (1000)	1200 (1200)	1200 (1200)
	Length Silent (Open)		mm	3150 (2550)	3150 (2550)	3150 (2550)	3500 (2900)	3500 (2900)
	Height Silent (Open)		mm	1700 (1850)	1700 (1850)	1700 (1850)	1850 (2100)	1850 (2100)
	Fuel Tank Capacity		lt	220	220	220	360	360

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MODEL		FP 300	FP 330	FP 400	FP 450	FP 500	
<b>GROUP</b>	Stand By	kVA	300	330	400	450	500
		kW	240	264	320	360	400
	Prime	kVA	272.7	300	363.6	410	454
		kW	218	240	290	327	363
	Rated Current	A	393	432	523.5	590	653
<b>ENGINE</b>	Engine		PERKINS				
	Engine Model		1506A-E88TAG4	1506A-E88TAG5	2206A-E13TAG2	2206A-E13TAG3	2506A-E15TAG1
	Number of Cylinders		6 Inline				
	Injection System		Direct				
	Compression Ratio		17 : 1	17 : 1	16.3 : 1	16.3 : 1	16 : 1
	Bore	mm	112	112	130	130	137
	Stroke	mm	149	149	157	157	171
	Displacement	lt	8.8	8.8	13	13	15.2
	Air Intake		Turbocharged & Air Charge Cooled		Turbocharged & Air-to-Air Charge Cooled		
	Speed (RPM)	rpm	1500				
	Oil Capacity	lt	41	41	41	43	62
	Standby Power	Kw / Hp	258 / 347	293 / 396	350 / 469	392 / 526	434 / 590
	Prime Power	Kw / Hp	236 / 318	266 / 360	305 / 409	350 / 468	395 / 537
	Fuel Type		Euro Diesel				
	Governor System		Electronic				
	Cooling System		Water Cooling				
	Coolant Capacity	lt	30	30	52	52	58
Fuel Consumption (lt / h)	Full Load	60.7	65	70.5	81	95	
	75% Load	43.5	48.2	54	62	72	
	50% Load	29.1	33	35	42	50	
<b>ALTERNATOR</b>	Frequency	Hz	50				
	Voltage	V	400				
	Number of Phases		3				
	Voltage Regulation		±1%				
	Insulation Class		H				
	Protection Standard		IP23				
	Power Factor	Cos	0.8				
<b>DIMENSIONS</b>	Weight Silent (Open)	Kg	3275 (2845)	3320 (2890)	4100 (3550)	4100 (3550)	4600 (3960)
	Width Silent (Open)	mm	1200 (1200)	1200 (1200)	1600 (1600)	1600 (1600)	1600 (1600)
	Length Silent (Open)	mm	3900 (3275)	3900 (3275)	4600 (3900)	4600 (3900)	5000 (4500)
	Height Silent (Open)	mm	2050 (2250)	2050 (2250)	2500 (2850)	2500 (2850)	2600 (2900)
	Fuel Tank Capacity	lt	520	520	1100	1100	1200

# FP Series

## Perkins Engine



MODEL			FP 550	FP 660	FP 725	FP 780	FP 850
GROUP	Stand By	kVA	550	660	725	780	850
		kW	440	528	580	624	680
	Prime	kVA	500	600	660	709	772
		kW	400	480	528	567	618
	Rated Current	A	720	864	950	1020	1110
ENGINE	Engine		PERKINS				
	Engine Model		2506A-E15TAG2	2806A-E18TAG1A	2806A-E18TAG2	2806A-E18TTAG4	2806A-E18TTAG5
	Number of Cylinders		6 Inline				
	Injection System		Direct				
	Compression Ratio		16 : 1	14.5 : 1	14.5 : 1	14 : 1	14 : 1
	Bore	mm	137	145	145	145	145
	Stroke	mm	171	183	183	183	183
	Displacement	lt	15.2	18.1	18.1	18.1	18.1
	Air Intake		Turbocharged & Air-to-Air Charge Cooled				
	Speed (RPM)	rpm	1500				
	Oil Capacity	lt	62	62	62	72	72
	Standby Power	Kw / Hp	478 / 650	574 / 780	609 / 817	685 / 919	743 / 996
	Prime Power	Kw / Hp	434 / 590	521 / 708	553 / 741	623 / 835	676 / 907
	Fuel Type		Euro Diesel				
	Governor System		Electronic				
	Cooling System		Water Cooling				
	Coolant Capacity	lt	58	61	61	110	110
Fuel Consumption (lt / h)	Full Load	100	123	132	147	159	
	75% Load	76	90	97	109	115.8	
	50% Load	53	61	66	75	78	
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	4675 (4035)	5600 (4800)	5650 (4850)	7100 (5800)	7100 (5800)
	Width Silent (Open)	mm	1600 (1600)	1900 (1900)	1900 (1900)	2000 (2000)	2000 (2000)
	Length Silent (Open)	mm	5000 (4500)	4500 (3850)	4500 (3850)	5500 (5000)	5500 (5000)
	Height Silent (Open)	mm	2600 (2900)	2550 (2900)	2550 (2900)	3000 (3400)	3000 (3400)
	Fuel Tank Capacity	lt	1200	1300	1300	1400	1400

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MODEL			FP 900	FP 1000	FP 1125	
<b>GROUP</b>	Stand By	kVA	900	1000	1125	
		kW	720	800	900	
	Prime	kVA	818	910	1022	
		kW	655	728	817	
Rated Current		A	1178	1310	1470	
<b>ENGINE</b>	Engine		PERKINS			
	Engine Model		4006-23TAG3A	4008TAG1A	4008TAG2A	
	Number of Cylinders		6 Inline	8 Inline		
	Injection System		Direct			
	Compression Ratio		13.6 : 1	13.6 : 1	13.6 : 1	
	Bore		mm	160	160	160
	Stroke		mm	190	190	190
	Displacement		lt	22.9	30.56	30.56
	Air Intake		Turbocharged & Air-to-Air Charge Cooled			
	Speed (RPM)		rpm	1500		
	Oil Capacity		lt	114	153	153
	Standby Power		Kw / Hp	760 / 1019	839 / 1141	958 / 1283
	Prime Power		Kw / Hp	679 / 910	762 / 1036	871 / 1167
	Fuel Type		Euro Diesel			
	Governor System		Electronic			
	Cooling System		Water Cooling			
	Coolant Capacity		lt	105	150	150
Fuel Consumption (lt / h)		Full Load	172	194	215	
		75% Load	130	142	162	
		50% Load	90	97	111	
<b>ALTERNATOR</b>	Frequency		Hz	50		
	Voltage		V	400		
	Number of Phases		3			
	Voltage Regulation		±1%			
	Insulation Class		H			
	Protection Standard		IP23			
Power Factor		Cos	0.8			
<b>DIMENSIONS</b>	Weight Silent (Open)		Kg	7300 (6000)	9950 (8150)	9950 (8150)
	Width Silent (Open)		mm	2000 (2000)	2300 (2300)	2300 (2300)
	Length Silent (Open)		mm	5500 (5000)	6000 (5000)	6000 (5000)
	Height Silent (Open)		mm	3385 (3385)	3385 (3385)	3385 (3385)
	Fuel Tank Capacity		lt	1400	1550	1550

# 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