

**FP 110 Diesel Generator** 

**Servins** 

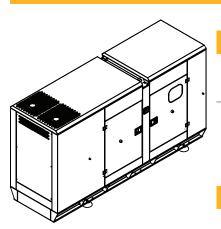
LEROY-SOMER



	GENERAL SPECIFICATIONS	
	OLNERAL SPECIFICATIONS	
Stand By Power	kVA	110
Stand By Power	kW	88
Prime Power	kVA	100
Prime Power	kW	80
Frequency	Hz	50
Cooling System	Water Cooling	

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.

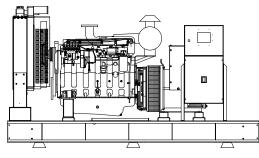


### **DIMENSIONS & WEIGHT**

WITH CAN	IOPY			
Length L (mm)	Width W (mm)	Height H (mm)	Weight (Kg)	Fuel Tank Capacity
2800	1000	1500	1480	195

#### **OPEN TYPE**

Length	Width	Height	Weight	Fuel Tank
L (mm)	W (mm)	H (mm)	(Kg)	Capacity
2350	1000	1450	1290	195



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## ENGINE

Engine	PERKINS		
Engine Model		1104C-44TAG2	
Number of Cylinders		4 Inline	
Injection System		Direct	
<b>Compression Ratio</b>		18.2 : 1	
Bore	mm	105	
Stroke	mm	127	
Displacement	lt	4.4	
Air Intake		Turbo Intercooler	
Speed (RPM)	rpm	1500	
Oil Capacity	lt	8	
Standby Power	kW / hp	80.7 / 109	
Prime Power	kW / hp	73.4 / 99	
Fuel Type		Euro Diesel	
Governor System		Mechanical	
Cooling System		Water Cooling	
Coolant Capacity	lt	13	
	Full Load	22	
Fuel Consumption (lt / h)	%75 Load	16.9	
	%50 Load	11.1	

## ALTERNATOR

Frequency	Hz	50
Power	kVA	110
Voltage	V	230 / 400
Nb of Phases		3
Aut. Voltage Regulator (AVR)		AS440
Voltage Regulation		±1%
Insulation Class		Н
Protection Standard		IP22-IP23
Power Factor	Cos	0.8

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# **FP 110** Diesel Generator

#### TECHNICAL 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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#### **CONTROL PANEL**

# **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
- $\bullet$  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

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#### 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

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