FB-165

Diesel Generators

LEROY-SOMER™ FULL ALTERNATÖR



CE TSE ISO ISO ISO EAC Made in Türkiye

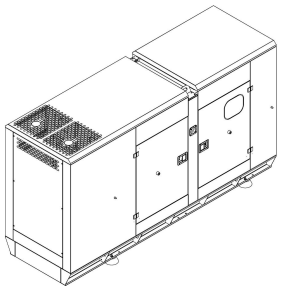
GENERAL SPECIFICATIONS

Standby	kVA	165 kVA
	kW	132 kW
Prime	kVA	150 kVA
	kW	120 kW
Frequency	Hz	50 Hertz

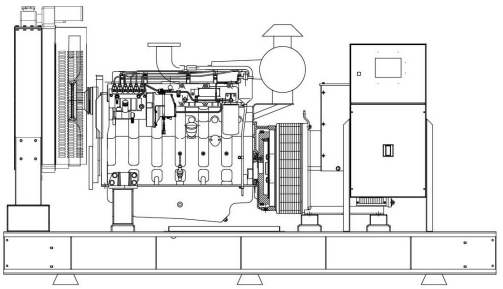
1 Standby power: Used as a backup to mains power, as an emergency power source under variable load, no overloading.
2 Prime Power: Continuous power source under variable load for 24/24 hours. 1/12 hour 10% overloading is permitted.

DIMENSIONS AND WEIGHTS

WITH CANOPY



WITHOUT CANOPY



Weight (With Canopy / Without Canopy)	2040 (1775) kg
Width (With Canopy / Without Canopy)	1000 (1000) mm
Length (With Canopy / Without Canopy)	3150 (2550) mm
Height (With Canopy / Without Canopy)	1810 (1900) mm
Fuel Tank Capacity	220 L

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

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Diesel Generators

ENGINE

Engine Brand	BAUDOUIN
Engine Model	6M11G165-5
Number and Type of Cylinders	6 Inline
Injection and System Type	Direct
Compression Ratio	18 : 1
Diameter	105 mm
Stroke	130 mm
Cylinder Displacement	6.75 L
Air Suction Power	Turbocharged & Aftercooler
Rotational Speed	1500 Revolutions per Minute
Crankcase Oil Capacity (Lt)	17 L
Standby Power	152 / 203
Prime (PRP)	138 / 185
Fuel Type	Euro Diesel
Governor System	Electronic
Cooling Method	Water Cooled
Coolant Capacity	20 L
Fuel Consumption at Full Load	32.6 L
Fuel Consumption at 75% Load	24.6 L
Fuel Consumption at 50% Load	16.7 L

ALTERNATOR

Frequency (Alternator)	50 Hertz
Voltage	400 Volt
Phase	3
Voltage Regulation	±1%
Insulation Class	H
Protection Class	IP23
Power Factor	0.8 Ratio

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TECHNICAL SPECIFICATIONS

DIESEL ENGINE

- BAUDOUIN heavy duty diesel engine
- 12V / 24V starter motor and battery charging alternator
- Replaceable; air, fuel and oil filters
- Mechanical - 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
- Engine block water heater
- 1500 rpm engine speed

ALTERNATOR

- IP 23 Protection class
- H insulation class
- 50 Hz frequency
- 4-pole brushless synchronous type alternator
- Automatic voltage regulator (AVR)
- 400/230V A.C. output voltage - 1500 rpm

CANOPY AND CHASSIS

- Design suitable for easy lifting and transport
- Cabin equipped with sound insulation
- Modular cabin design with easily removable nut-bolt system
- Lockable cabin doors
- Control panel viewable through transparent window
- Electrostatically powder coated, protected against external factors
- Emergency stop button
- Fuel tank within the chassis
- Anti-vibration mounts between engine-chassis and chassis-ground

OPTIONAL EQUIPMENT

- Critical type silencer and super silent cabin
- Thermal magnetic switch (for automatic models)
- Sound insulation cabinet
- Trailer-mounted generator set
- Automatic fuel filling system
- Synchronization systems
- 3-pole / 4-pole power transfer panel
- Fuel heater, Oil heater
- External fuel tank and automatic fuel filling system
- Fuel-water separator filter
- Computer-controlled remote monitoring and control panel
- PMG Alternator



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Diesel Generators

D 300

Internet Based Next Generation Generator Control Device



CONTROL PANEL

FEATURES

- Diesel and gas generator support
- Dual generator support, equal aging
- Multiple nominal charge definitions
- 400Hz generator support
- Contactor and motorized switch drive
- 400x measurement value event log
- Fine speed adjustment for some ECUs
- 4-quadrant energy meters
- All parameters changeable from front panel
- Automatic fuel pump control
- Mains energy meters
- 3-level program password
- Protection cancel feature
- Fuel filling counter
- 128x64 pixel graphic LCD
- Overpower protection
- Fuel consumption counter
- Language loading
- Reverse power protection
- Modern diagnostic page
- Current-voltage waveform
- Overcurrent IDMT protection
- Parameter setting via USB, RS-232 and GPRS
- Current-voltage harmonic analysis
- Load shedding, dummy load
- 16 Amp / 250V socket / plug outputs
- Multiple load shedding programs
- Free configuration software
- 8 programmable digital inputs
- Current unbalance protection
- Remote control via SMS
- 6 programmable digital outputs
- Voltage unbalance protection
- Ready for central monitoring
- 3 programmable analog inputs
- Fuel filling and theft alarms
- Mobile generator support
- CANBUS-J1939 & MPU input
- Battery-backed real-time clock
- Automatic GSM location detection
- 3 programmable service alarms
- Idle speed control
- GPS connection (RS232)
- Multiple automatic test programs
- Battery charging operation
- Software update via USB
- Weekly operation schedule
- War mode support
- IP65 protection (with gasket)

MEASUREMENTS

- Mains & Generator FN/FF voltages
- Mains & Generator frequency
- Mains & Generator phase currents
- Mains & Generator neutral currents
- Mains & Generator, phase and total kW, kVA, kVAr, cos
- Engine Speed
- Battery Voltage

FUNCTIONS

- AMF Device
- ATS Device
- Remote Start Device
- Manual Start Device
- Engine Control Device
- Remote Monitoring Panel

COMMUNICATION

- USB Device
- J1939-CANBUS
- Location detection via GSM
- Internet central monitoring
- SMS message sending
- E-mail sending
- Free software: Rainbow Plus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

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