

60 Hz



RATINGS 240 V - 60 Hz				
Standby	kVA	20		
	kWe	20		
Prime	kVA	18.20		
	kWe	18.20		



Benefits & features

KOHLER premium quality

- Design offices using the latest technical innovations
- Modern fully certified factories
- A cutting edge laboratory
- The generating set, its components and a wide range of options have been fully developed, prototype tested, factory built, and production tested
- Approved for use with HVO (Hydrotreated Vegetable Oil) according to EN15940

KOHLER premium performances

- Optimized and certified sound levels
- Reliable power, even in extreme conditions
- Optimized fuel consumption
- Compact footprint
- Best quality of electricity, high starting and loading capacity, according to ISO8528-5
- Robust base frames and high-quality enclosures
- Protection of installations and people
- Approved in line with the most stringent standards

Engines

- Premium level engines, in-house or from strong partners
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

Alternator

- Provide industry leading motor starting capability
- Made in Europe
- Built with a class H insulation and IP23

Cooling

- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by KOHLER
- High temperature and altitude product capacity available

Base frame and enclosure

- High quality steel with enhanced corrosion resistance
- Highly durable QUALICOAT-certified epoxy paint
- Minimum 1000 hours of resistance to salt spray in accordance with ISO12944
- Ergonomic access to allow easy maintenance and connection of the generator
- Robust design optimized for transportation

GENERAL SPECIFICATIONS	
Engine brand	JOHN DEERE
Alternator commercial brand	KOHLER
Voltage (V)	240 single phase
Standard Control Panel	APM303
Optional control panel	APM403
Consumption @ 100% load ESP (L/h) *	7
Consumption @ 100% load PRP (L/h) *	6
Emission level	Fuel consumption optimization
Type of Cooling	Mechanical driven fan
Performance class	G3

GENERATOR SETS RATINGS

				_				
				Star	idby Ra	ating	Prime	Rating
J20UM	Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA
J2001VI	240 MONO-BI	1	60	20	20	83	18,20	18.20
DIMENSION	S COMPACT \	/ERS	ION					
Length (mm))					1700		
Width (mm)						896		
Height (mm)						1181		
Tank capacit	y (L)					100		
Dry weight (kg)					663		
DIMENSION	S SOUNDPRO	OFE	O VERS	SION				
Type soundp	roofing				NO	T AVAILA	BLE	
Length (mm))					2100		
Width (mm)						938		
Height (mm)						1285		
Tank capacit	y (L)					100		
Dry weight (kg)					851		
Acoustic pre (100% PRP)	ssure level @	1m ii	n dB(A) 60Hz		78		
Acoustic pre (100% PRP)	ssure level @	7m ii	n dB(A) 60Hz		68		



60 Hz

Engine brand Engine ref. Air inlet system Fuel Diesel Fuel/HVO Fuel consumption optimization Cylinder configuration Cylinder of cylinders Displacement (I) Disp	Engine	
Engine ref. Air inlet system Air inlet system Fuel Diesel Fuel/HVO Emission level Cylinder configuration L Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 55% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h)	General	
Air inlet system Fuel Diesel Fuel/HVO Emission level Cylinder configuration Cylinder configuration L Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Direct Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ FSP Max Power 60Hz (I/h) Fuel consumption @ FRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h)	Engine brand	JOHN DEERE
Fuel Diesel Fuel/HVO Emission level Fuel consumption optimization Cylinder configuration L Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz Fuel consumption @ 30% of PRP Power 60Hz Fuel consumption @	Engine ref.	3029DSG20 *
Emission level Cylinder configuration Cylinder configuration Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Maximum fuel pump flow 60Hz (I/h) Maximum fuel pump flow 60Hz (I/h) Maximum fuel pump flow 60Hz (I/h) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Diesel or NG 106 * 110 107.2 : 1 106 * 110 17.2 : 1 1800 **ABOO **AB	Air inlet system	Atmo
Cylinder configuration Cylinder configuration Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Diesel or NG 106 * 110 107 * 110 106 * 110 107 * 110 108 * 110 109 * 110 100 * 110	Fuel	Diesel Fuel/HVO
Number of cylinders Displacement (I) Bore (mm) * Stroke (mm) Compression ratio 17.2 : 1 Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Direct Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel sonsumption @ 50% of PRP Power 60Hz (I/h) Fuel sonsumption @ 50% of PRP Power 60Hz (I/h) Fuel sonsumption @ 50% of PRP Power 60Hz (I/h) Fuel sonsumption @ 50% of PRP Power 60Hz (I/h) Fuel sonsumption @ 50% of PRP Power 60Hz (I/h) Emission PM (g/kWh) Emission NOx (g/kW.h) Diesel or NG 12.80	Emission level	Fuel consumption optimization
Displacement (I) Bore (mm) * Stroke (mm) Compression ratio 17.2 : 1 Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h)	Cylinder configuration	L
Bore (mm) * Stroke (mm) Compression ratio 17.2 : 1 Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emission PM (g/kWh) D.30 Emission PM (g/kW.h) Emission NOx (g/kW.h) Diesel or NG	Number of cylinders	3
Compression ratio Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Emission NOx (g/kW.h) Diesel or NG 12.80	Displacement (I)	2.91
Speed (RPM) Maximum stand-by power at rated RPM 60Hz (kW) Frequency regulation, steady state (%) Injection Type Governor type Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 35% of PRP Power 60Hz (I/h) Fuel consumption @ 35% of PRP Power 60Hz (I/h) Fuel consumption @ 35% of PRP Power 60Hz (I/h) Fuel consumption @ 30% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Emission NOx (g/kW.h) Diesel or NG	Bore (mm) * Stroke (mm)	106 * 110
Maximum stand-by power at rated RPM 60Hz (kW) 35 Frequency regulation, steady state (%) +/- 2.5% Injection Type Direct Governor type Mechanical Air cleaner type, models Dry Fuel system Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) Diesel or NG 12.80	Compression ratio	17.2 : 1
(kW) Frequency regulation, steady state (%) Injection Type Governor type Mechanical Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Emission NOx (g/kW.h) Diesel or NG 12.80	Speed (RPM)	1800
Injection Type Direct Governor type Mechanical Air cleaner type, models Dry Fuel system Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) Diesel or NG 12.80	Maximum stand-by power at rated RPM 60Hz (kW)	35
Governor type Mechanical Air cleaner type, models Dry Fuel system Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Frequency regulation, steady state (%)	+/- 2.5%
Air cleaner type, models Fuel system Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Injection Type	Direct
Fuel system Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 (I/h) 6.60 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Governor type	Mechanical
Maximum fuel pump flow 60Hz (I/h) 60 Max head on fuel return line (m fuel) 1 Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Air cleaner type, models	Dry
Max head on fuel return line (m fuel) Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) Fuel consumption @ PRP Max Power 60Hz (I/h) Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Diesel or NG 12.80	Fuel system	
Consumption with cooling system Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Maximum fuel pump flow 60Hz (l/h)	60
Fuel consumption @ ESP Max Power 60Hz (I/h) 9.80 Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Max head on fuel return line (m fuel)	1
Fuel consumption @ PRP Max Power 60Hz (I/h) 8.70 Fuel consumption @ 75% of PRP Power 60Hz (I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Consumption with cooling system	
Fuel consumption @ 75% of PRP Power 60Hz (I/h) Fuel consumption @ 50% of PRP Power 60Hz (I/h) Emissions Emission PM (g/kWh) Emission CO (g/kW.h) Emission NOx (g/kW.h) Diesel or NG 12.80	Fuel consumption @ ESP Max Power 60Hz (I/h)	9.80
(I/h) 6.60 Fuel consumption @ 50% of PRP Power 60Hz 4.50 (I/h) 4.50 Emissions Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Fuel consumption @ PRP Max Power 60Hz (I/h)	8.70
(I/h) 4.50 Emissions 0.30 Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Fuel consumption @ 75% of PRP Power 60Hz (I/h)	6.60
Emission PM (g/kWh) 0.30 Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Fuel consumption @ 50% of PRP Power 60Hz (I/h)	4.50
Emission CO (g/kW.h) 3.40 Emission NOx (g/kW.h) Diesel or NG 12.80	Emissions	
Emission NOx (g/kW.h) Diesel or NG 12.80	Emission PM (g/kWh)	0.30
,	Emission CO (g/kW.h)	3.40
Emission HC (g/kW.h) 1	Emission NOx (g/kW.h) Diesel or NG	12.80
	Emission HC (g/kW.h)	1

Lubrication System			
Oil system capacity including filters (I)		6	
Min. oil pressure (bar)		1	
Max. oil pressure (bar)		5	
Oil sump capacity (I)	5.	30	
Oil consumption 100% ESP 60Hz (I/h)	0.0	250	
Air Intake system			
Max. intake restriction (mm H2O)	3	00	
Combustion air flow (I/s)	3	37	
Exhaust system			
	PRP	ESP	
Exhaust gas flow (L/s)		103	
Exhaust gas temperature @ ESP (°C)	5	570	
Heat rejection to exhaust (kW)	31		
Max. exhaust back pressure (mm H2O)	750		
Cooling system			
Radiator & Engine capacity (I)	16	.10	
Fan power 60Hz (kW)	1.	20	
Fan air flow w/o restriction (m3/s)	2.	22	
Available restriction on air flow (mm H2O)	2	20	
Type of coolant	Glycol-I	Ethylene	
Radiated heat to ambiant (kW)		7	
Heat rejection to coolant HT (kW)	2	21	
Outlet coolant temperature (°C)	g	93	
Max coolant temperature, Shutdown (°C)	coolant temperature, Shutdown (°C) 105		
Thermostat begin of opening HT (°C)	HT (°C) 82		
Thermostat end of opening HT (°C)	94		

^{*} Engine reference may be partially modified depending on genset application, options selected by the customer and lead time required.

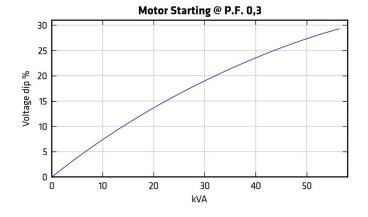
^{**} Fuel consumption is up to 4% higher when using HVO than Diesel Fuel



60 Hz

Alternator Specifications	
Alternator commercial brand	KOHLER
Kohler Alternator description	KH00630T
Number of pole	4
Number of bearing	Single Bearing
Technology	Brushless
Indication of protection	IP23
Insulation class	Н
Number of wires	12
AVR Regulation	Yes
Coupling	Direct
Capacity for maintaining short circuit at 3 In for 10 s	Yes
Application data	
Overspeed (rpm)	2250
Power factor (Cos Phi)	1
Voltage regulation at established rating (+/- %)	1
Wave form : NEMA=TIF	<45
Wave form : CEI=FHT	<2
Total Harmonic Distortion in no-load DHT (%)	3.3
Total Harmonic Distortion, on linear load DHT (%)	2.1
Recovery time (Delta U = 20% transcient) (ms)	200
Performance datas	
Continuous Nominal Rating 40°C (kVA)	21
Unbalanced load acceptance ratio (%)	8

Peak motor starting (kVA) based on x% voltage dip power factor at 0.3



Alternator Standard Features

- All models are brushless, rotating-field alternators
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof construction
- Superior voltage waveform

Note: See Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.





60 Hz

Dimensions compact version

1700 * 896 * 1181
663
100



M137 - Dimensions soundproofed version

	2100 * 938 * 1285
Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1285
Dry weight (kg)	851
Tank capacity (L)	100
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	78
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	68



Dimensions DW compact version

Length (mm) * Width (mm) * Height (mm)	2074 * 932 * 1382
Dry weight (kg)	871
Tank capacity (L)	240



M137 - Dimensions DW soundproofed version

Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1486
Dry weight (kg)	1059
Tank capacity (L)	240
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	78
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	68



M137 - Dimensions DW 48h soundproofed version

Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1540
Dry weight (kg)	1071
Tank capacity (L)	470
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	78
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	68



^{*} dimensions and weight without options



60 Hz

APM303



The APM303 is a versatile unit which can be operated in manual or automatic mode. It offers the following features:

- Measurements: phase-to-neutral and phase-to-phase voltages, fuel level (In option : active power currents, effective power, power factors, Kw/h energy meter, oil pressure and coolant temperature levels)
- Supervision: Modbus RTU communication on RS485
- Reports: (In option : 2 configurable reports)
- Safety features: Overspeed, oil pressure, coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)
- Traceability: Stack of 12 stored events

For further information, please refer to the data sheet for the APM303

APM403



BASIC GENERATING SET AND POWER PLANT CONTROL

The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements : voltage and current
- kW/kWh/kVA power meters
- Standard specifications: Voltmeter, Frequency meter.
- Optional : Battery ammeter.
- J1939 CAN ECU engine control
- Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Startup failure, alternator min/max, Emergency stop button.
- Engine parameters: Fuel level, hour counter, battery voltage.
- Optional (standard at 24V): Oil pressure, water temperature.
- Event log/ Management of the last 300 genset events.
- Mains and genset protection
- Clock management
- USB connections, USB Host and PC,
- Communications: RS485 INTERFACE
- ModBUS protocol /SNMP
- Optional: Ethernet, GPRS, remote control, 3G, 4G,
- Websupervisor, SMS, E-mails



60 Hz

STANDARD SCOPE OF SUPPLY

All our gensets are fitted with:

- Industrial water cooled DIESEL engine
- Electric starter & charge alternator
- Standard air filter
- Schneider or ABB electric circuit breaker, adapted to the short-circuit current of the generating set
- Single bearing alternator IP 23 T° rise/insulation to class H/H
- Welded steel base frame with 85% vibration attenuation mounts
- 4 lifting points on the chassis, lifting bar on the top included from 165 kVA ESP or optional
- highly durable QUALICOAT certified epoxy paint
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- IP 64 locks, made from stainless materials
- enclosures and base frames tested and analyzed by the French Corrosion Institut
- 100% of tanks tested for permeability
- Personal protection ensured by protective grilles on hot and rotating parts
- Separate 9 dB(A) silencer
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 110 kVA ESP
- Charged DC starting battery with electrolyte
- Emergency stop button on the outside
- Flexible fuel lines & lub oil drain cock
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film
- Delivered with oil and antifreeze liquid

CODES AND STANDARDS

Engine-generators set is designed and manufactured in facilities certified to standards ISO9001:2015 & ISO14001:2015. The generator sets and its components are prototype-tested, factory built and production tested and are in compliance with the relevant standards:

- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive 2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

POWER RATINGS DEFINITION according to ISO8528-1 (2018-02 edition) and ISO-3046-1

Emergency Standby Power (ESP): The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Average load factor per 24 hours of operation is <70%.

Prime Power (PRP): At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour within 12 hour of operation. Average load factor per 24 hours of operation is <70%.

TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30% relative humidity. For particular conditions in your installation, refer to the derating table.