KOHLER

Industrial Diesel Generator Set – **B1400**



RATINGS 400 V - 50 Hz			
Standby	kVA	1400	
	kWe	1120	
Prime	kVA	1273	
	kWe	1018	



Benefits & features

KOHLER premium quality

- KOHLER provides one source responsibility for the generating set and accessories
- The generator set, its components and a wide range of options have been fully developed, prototype tested, factory built, and production tested
- The generator sets are designed in accordance to ISO8528
- Approved for use with HVO (Hydrotreated Vegetable Oil) according to EN15940

KOHLER premium performances

Engines

- High reliability enhanced through a simple design for optimal functional performances
- High performances turbochargers providing high engine performances under all loads
- Easy operation and maintenance: accessories requiring daily maintenance are conveniently located on the same side of the engine

Alternator

- Provide industry leading motor starting capability
- Excitation system to permit sustained overcurrent > 300% In, during 10 sec
- Built with a class H insulation and IP23

Cooling

- A compact and complete solution using a mechanical driven fan radiator
- High temperature and altitude product capacity available

Control Panel

 The KOHLER wide controller range provides the reliability and performances you expect from your equipment. You can program, manage and diagnose it easily and in an efficient way

KOHLER worldwide support

- A standard two-year or 1000-hours limited warranty for standby applications.
- A standard one-year or 2500 hours limited warranty for prime power applications.
- A worldwide product support

GENERAL SPECIFICATIONS

Engine brand	BAUDOUIN
Alternator commercial brand	KOHLER
Voltage (V)	400/230
Standard Control Panel	APM403
Consumption @ 100% load ESP (L/h) *	289
Consumption @ 100% load PRP (L/h) *	259
Emission level	Fuel consumption optimization
Type of Cooling	Mechanical driven fan
Performance class	G2

GENERATOR SETS RATINGS

-	-								
					Star	ndby Ra	iting	Prime	Rating
		Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA
	B1400	415/240	3	50	1120	1400	1948	1018	1273
	B1400	400/230	3	50	1120	1400	2021	1018	1273
		380/220	3	50	1120	1400	2127	1018	1273
DI	MENSIONS	6 СОМРАСТ	VERS	ION					
Le	ngth (mm)						4765		
Width (mm) 2250									
He	eight (mm)						2465		
Та	ink capacity	y (L)					500		
Dr	y weight (k	(g)					9150		
DI	MENSIONS	SOUNDPRO	OOFEI	O VERS	SION				
Ту	pe soundp	roofing				NO	T AVAILA	BLE	
Le	ngth (mm)						6060		
Width (mm)					2440				
He	Height (mm)					2896			
Tank capacity (L)					500				
Dr	Dry weight (kg)				14940				
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)) 50Hz		91				
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)) 50Hz	82				

* Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L. Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.

KOHLER.

Engine

Engine brandBAUDOUINEngine ref.12M33G1400_V2_5 *Air inlet systemTurboFuelDiesel Fuel/HVOEmission levelFuel consumption optimizationCylinder configurationVNumber of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (l/h)1070Fuel Ninimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ PSP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)197,30Specific consumption @ 50% of PRP Power (g/kW.h)197,30	General	
Air inlet systemTurboFuelDiesel Fuel/HVOEmission levelFuel consumption optimizationCylinder configurationVNumber of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (l/h)1070Fuel Inlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (*C)70Consumption with cooling system200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power (g/kW.h)197,30	Engine brand	BAUDOUIN
FuelDiesel Fuel/HVOEmission levelFuel consumption optimizationCylinder configurationVNumber of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (l/h)1070Fuel Inlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system (g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power (g/kW.h)197,30	Engine ref.	12M33G1400_V2_5 *
Emission levelFuel consumption optimizationCylinder configurationVNumber of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (I/h)1070Fuel Ninimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197, 30	Air inlet system	Turbo
Emission leveloptimizationCylinder configurationVNumber of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (l/h)1070Fuel outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Fuel	Diesel Fuel/HVO
Number of cylinders12Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (I/h)1070Fuel Inlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power194,20Specific consumption @ 50% of PRP Power197,30	Emission level	
Displacement (I)39,23Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Fuel outlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Maxinum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power194,20Specific consumption @ 50% of PRP Power197,30	Cylinder configuration	V
Bore (mm) * Stroke (mm)150 * 185Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system14Maximum fuel pump flow (l/h)1070Fuel Inlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ T5% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Number of cylinders	12
Compression ratio15 : 1Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel systemMaximum fuel pump flow (l/h)Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power194,20Specific consumption @ 50% of PRP Power197,30	Displacement (I)	39,23
Speed 50Hz (RPM)1500Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel systemMaximum fuel pump flow (l/h)1070Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power194,20Specific consumption @ 50% of PRP Power197,30	Bore (mm) * Stroke (mm)	150 * 185
Maximum stand-by power at rated RPM (kW)1210Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel systemMaximum fuel pump flow (l/h)1070Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Compression ratio	15 : 1
Charge Air coolantAir/AirInjection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel system1070Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Speed 50Hz (RPM)	1500
Injection TypeDirectGovernor typeElectronicAir cleaner type, modelsDryFuel systemMaximum fuel pump flow (I/h)1070Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Maximum stand-by power at rated RPM (kW)	1210
Governor typeElectronicAir cleaner type, modelsDryFuel systemInterpretain the systemMaximum fuel pump flow (I/h)1070Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling system200,50Specific consumption @ ESP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Charge Air coolant	Air/Air
Air cleaner type, models Dry Fuel system 1070 Fuel system 14 Maximum fuel pump flow (I/h) 1070 Fuel Inlet Minimum recommended size (mm) 14 Fuel Outlet Minimum recommended size (mm) 14 Max head on fuel return line (m fuel) 5,90 Maximum allowed inlet fuel temperature (°C) 70 Consumption with cooling system 200,50 Specific consumption @ ESP Max Power 197,50 (g/kW.h) 197,50 Specific consumption @ 75% of PRP Power 194,20 (g/kW.h) 50% of PRP Power 197,30	Injection Type	Direct
Fuel system Maximum fuel pump flow (I/h) 1070 Fuel Inlet Minimum recommended size (mm) 14 Fuel Outlet Minimum recommended size (mm) 14 Max head on fuel return line (m fuel) 5,90 Maximum allowed inlet fuel temperature (°C) 70 Consumption with cooling system 200,50 Specific consumption @ ESP Max Power 197,50 (g/kW.h) 197,50 Specific consumption @ 75% of PRP Power 194,20 (g/kW.h) 50% of PRP Power Specific consumption @ 50% of PRP Power 197,30	Governor type	Electronic
Maximum fuel pump flow (I/h) 1070 Fuel Inlet Minimum recommended size (mm) 14 Fuel Outlet Minimum recommended size (mm) 14 Max head on fuel return line (m fuel) 5,90 Maximum allowed inlet fuel temperature (°C) 70 Consumption with cooling system 200,50 Specific consumption @ ESP Max Power 200,50 (g/kW.h) 197,50 Specific consumption @ 75% of PRP Power 194,20 (g/kW.h) Specific consumption @ 50% of PRP Power	Air cleaner type, models	Dry
Fuel Inlet Minimum recommended size (mm)14Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling systemSpecific consumption @ ESP Max Power (g/kW.h)Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Fuel system	
Fuel Outlet Minimum recommended size (mm)14Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling systemSpecific consumption @ ESP Max Power (g/kW.h)Specific consumption @ PRP Max Power (g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Maximum fuel pump flow (l/h)	1070
Max head on fuel return line (m fuel)5,90Maximum allowed inlet fuel temperature (°C)70Consumption with cooling systemSpecific consumption @ ESP Max Power (g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Fuel Inlet Minimum recommended size (mm)	14
Maximum allowed inlet fuel temperature (°C)70Consumption with cooling systemSpecific consumption @ ESP Max Power (g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Fuel Outlet Minimum recommended size (mm)	14
Consumption with cooling systemSpecific consumption @ ESP Max Power (g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Max head on fuel return line (m fuel)	5,90
Specific consumption @ ESP Max Power200,50(g/kW.h)Specific consumption @ PRP Max Power197,50(g/kW.h)Specific consumption @ 75% of PRP Power194,20(g/kW.h)Specific consumption @ 50% of PRP Power197,30	Maximum allowed inlet fuel temperature (°C)	70
(g/kW.h)200,50Specific consumption @ PRP Max Power (g/kW.h)197,50Specific consumption @ 75% of PRP Power (g/kW.h)194,20Specific consumption @ 50% of PRP Power197,30	Consumption with cooling system	
(g/kW.h) 197,50 Specific consumption @ 75% of PRP Power 194,20 (g/kW.h) Specific consumption @ 50% of PRP Power 197,30 197,30		200,50
(g/kW.h) 194,20 Specific consumption @ 50% of PRP Power 197,30	(g/kW.h)	197,50
197.30	(g/kW.h)	194,20
	• •	197,30

Lubrication System			
Oil system capacity including filters (I)	1	60	
Min. oil pressure (bar)	2		
Max. oil pressure (bar)	7		
Oil sump capacity (I)	1	55	
Oil consumption 100% ESP 50Hz (I/h)	0,	80	
Air Intake system			
Max. intake restriction (mm H2O)	6	63	
Combustion air flow (I/s)	13	92	
Exhaust system			
	PRP	ESP	
Exhaust gas flow (L/s)	3633	3950	
Exhaust gas temperature @ ESP (°C)	5	50	
Max. exhaust back pressure (mm H2O)	7	65	
Cooling system			
Radiator & Engine capacity (I)	2	40	
Fan power 50Hz (kW)	5	5	
Fan air flow w/o restriction (m3/s)	27	,50	
Available restriction on air flow (mm H2O)	2	20	
Type of coolant	Ger	icool	
Coolant capacity HT, engine only (I)	2	40	
Max coolant temperature, Shutdown (°C)	1	03	
Thermostat begin of opening HT (°C)	77		
Thermostat end of opening HT (°C)	87		
Cooling system and charge air cooler			
Radiator & Engine capacity (I)	2	40	
Fan power 50Hz (kW)	5	5	
Fan air flow w/o restriction (m3/s)	27,50		
Available restriction on air flow (mm H2O)	2	20	
Type of coolant	Gencool		
Coolant capacity HT, engine only (I)	2	40	
Outlet coolant temperature (°C)			
Max coolant temperature, Shutdown (°C)	1	03	
Max. pressure at inlet of HT water pump (mbar)			
Thermostat begin of opening HT (°C)	7	7	
Thermostat end of opening HT (°C)	87		
CAC Heat Rejection (kW)	278,50		
Cooling system (HT/LT)			
Radiator & Engine capacity (I)	2	40	
Fan power 50Hz (kW)	5	5	
Fan air flow w/o restriction (m3/s)	27	,50	
Available restriction on air flow (mm H2O)	2	20	
Type of coolant	Gencool		
Coolant capacity HT, engine only (I)	2	40	
Outlet coolant temperature (°C)			
Max coolant temperature, Shutdown (°C)	1	03	

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit; Fuel density at 0.85 kg/L. Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to

instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.

KOHLER.

Max. pressure at inlet of HT water pump (mbar)	
Thermostat begin of opening HT (°C)	77
Thermostat end of opening HT (°C)	87
Heat rejection to coolant LT (kW)	
LT circuit flow rate (I/min)	
Coolant capacity LT, engine only (I)	0

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

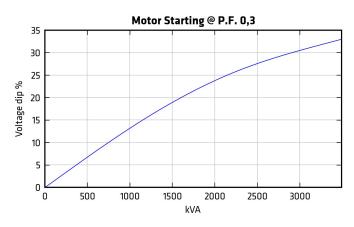
Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit; Fuel density at 0.85 kg/L. Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.

KOHLER.

Alternator Specifications

Alternator specifications	
Alternator commercial brand	KOHLER
Kohler Alternator description	KH04830T
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)	0,80
Voltage regulation at established rating (+/- %)	0,50
Wave form : NEMA=TIF	<40
Wave form : CEI=FHT	<2
Total Harmonic Distortion in no-load DHT (%)	2,4
Total Harmonic Distortion, on linear load DHT (%)	1,5
Recovery time (Delta U = 20% transcient) (ms)	200
Performance datas	
Continuous Nominal Rating 40°C (kVA)	1300
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
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds
- 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.

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L. Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.



Dimensions compact version with baseframe fuel tank

Length (mm) * Width (mm) * Height (mm)	
Dry weight (kg)	
Tank capacity (L)	

4765 * 2250 * 2465 9150 500



KOHLER

Container dimensions ISO20 soundproofed version

Length (mm) * Width (mm) * Height (mm)	6060 * 2440 * 2896
Dry weight (kg)	14940
Tank capacity (L)	500
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	91
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	112
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	82
* dimensions and weight without ontions	

* dimensions and weight without options

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit; Fuel density at 0.85 kg/L. Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice.



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



STANDARD DELIVERY

All our electrical generating sets (compact version) are equipped with:

- Water-cooled DIESEL engine
- Electronic control device and mechanical injection
- High filtration air filter
- Radiator without coolant
- Electric starter & 24 VDC charging alternator
- Single-bearing alternator, IP 23, H/H Class Insulation/Temp
- Welded steel base frame with vibration damping supports
- Flexible fuel lines and lubrication oil drainage pump
- Primary filter
- Exhaust outlet with hose and clamps
 - Included in your preconfigured pack:
 - Starter batteries
 - \circ \quad Automatic start-up pack including a battery charger and a preheating kit
 - APM403 control/command (P or S) depending on configuration
 - o 4-pole circuit breakers, manual or motorized depending on configuration
 - User documentation (1 copy)
- Packaged in film

Excluded from the supply:

- For Baudouin XPRESS products, from 25 to 1500 kVA: oil and antifreeze liquid
- For Baudouin XPRESS products, from 25 to 165 kVA: batteries

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 Directive2014/30/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



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.

WARRANTY INFORMATIONS

Standard Warranty Period:

- for Products in "back-up" service
 - \circ 30 months from the date the Product leaves the plant
 - \circ 24 months from the Product's commissioning date
 - 1,000 running hours

The warranty expires when one of the above conditions is met.

- for Products in "prime" or "continuous" service (continuous supply of electricity, either in the absence of any normal electricity grid or to complement the grid),
 - \circ 18 months from the date the Product leaves the plant
 - 12 months from the Product's commissioning date
 - 2,500 running hours

The warranty expires when one of the above conditions is met.

For more details regarding conditions of application and scope of the warranty please refer to our General "terms & conditions of sales".