



RATINGS 400 V - 50 Hz		
Standby	kVA	1000
	kWe	800
Prime	kVA	909
	kWe	727



Benefits & features

REHLKO premium quality

- REHLKO 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

REHLKO 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 REHLKO 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

REHLKO 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	rehlko
Voltage (V)	400/230
Standard Control Panel	APM403
Consumption @ 100% load ESP (L/h) *	209
Consumption @ 100% load PRP (L/h) *	187
Emission level	Fuel consumption optimization
Type of Cooling	Mechanical driven fan

GENERATOR SETS RATINGS

				Standby Rating			Prime Rating	
B1000	Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA
	415/240	3	50	800	1000	1391	727	909
	400/230	3	50	800	1000	1443	727	909
	380/220	3	50	800	1000	1519	727	909

DIMENSIONS COMPACT VERSION

Length (mm)	4417
Width (mm)	1740
Height (mm)	2384
Tank capacity (L)	500
Dry weight (kg)	7700

DIMENSIONS SOUNDPROOFED VERSION

Type soundproofing	NOT AVAILABLE
Length (mm)	6413
Width (mm)	2160
Height (mm)	2753
Tank capacity (L)	1035
Dry weight (kg)	9900
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	86
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	77

* 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.

Engine			
General		Lubrication System	
Engine brand	BAUDOUIN	Oil system capacity including filters (l)	114
Engine ref.	12M26G1000_5 *	Min. oil pressure (bar)	2
Air inlet system	Turbo	Max. oil pressure (bar)	7
Fuel	Diesel Fuel/HVO	Oil sump capacity (l)	109
Emission level	Fuel consumption optimization	Oil consumption 100% ESP 50Hz (l/h)	0,6570
Cylinder configuration	V	Air Intake system	
Number of cylinders	12	Max. intake restriction (mm H2O)	663
Displacement (l)	32	Combustion air flow (l/s)	1123
Bore (mm) * Stroke (mm)	150 * 150	Exhaust system	
Compression ratio	15.7 : 1		
Speed 50Hz (RPM)	1500	Exhaust gas flow (L/s)	PRP 2575 ESP 2772
Maximum stand-by power at rated RPM (kW)	902	Exhaust gas temperature @ ESP (°C)	550
Charge Air coolant	Air/Air	Max. exhaust back pressure (mm H2O)	765
Injection Type	Direct	Cooling system	
Governor type	Electronic	Radiator & Engine capacity (l)	154
Air cleaner type, models	Dry	Fan power 50Hz (kW)	30
Fuel system		Fan air flow w/o restriction (m3/s)	24
Maximum fuel pump flow (l/h)	595	Available restriction on air flow (mm H2O)	20
Fuel Inlet Minimum recommended size (mm)	14	Type of coolant	Gencool
Fuel Outlet Minimum recommended size (mm)	14	Coolant capacity HT, engine only (l)	83
Max head on fuel return line (m fuel)	5,90	Max coolant temperature, Shutdown (°C)	103
Maximum allowed inlet fuel temperature (°C)	70	Thermostat begin of opening HT (°C)	77
		Thermostat end of opening HT (°C)	87
Consumption with cooling system			
Specific consumption @ ESP Max Power (g/kW.h)	203,90		
Specific consumption @ PRP Max Power (g/kW.h)	200,30		
Specific consumption @ 75% of PRP Power (g/kW.h)	200,10		
Specific consumption @ 50% of PRP Power (g/kW.h)	206,60		

Alternator Specifications

Alternator commercial brand	rehlko
REHLKO Alternator description	KH03450T
Number of pole	4
Number of bearing	Single Bearing
Technology	Brushless
Indication of protection	IP23
Insulation class	H
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 (%)	2,7
Total Harmonic Distortion, on linear load DHT (%)	2,0
Recovery time (Delta U = 20% transient) (ms)	200

Performance datas

Continuous Nominal Rating 40°C (kVA)	930
Unbalanced load acceptance ratio (%)	8

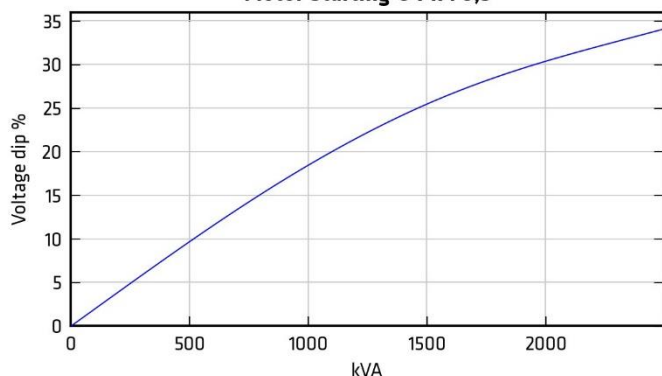
Peak motor starting (kVA) based on x% voltage dip power factor at 0.3

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.

Motor Starting @ P.F. 0,3



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Dimensions compact version with baseframe fuel tank

Length (mm) * Width (mm) * Height (mm)	4417 * 1740 * 2384
Dry weight (kg)	7700
Tank capacity (L)	500



M427 - Dimensions soundproofed version

Length (mm) * Width (mm) * Height (mm)	6413 * 2160 * 2753
Dry weight (kg)	9900
Tank capacity (L)	1035
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	86
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	107
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	77

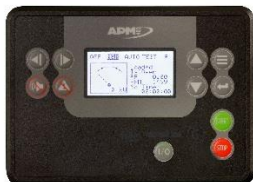


* dimensions and weight without options

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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, Start-up 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

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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:
 - o Starter batteries
 - o Automatic start-up pack including a battery charger and a preheating kit
 - o 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 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

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.

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TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Inlet 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 INFORMATION

Standard Warranty Period:

- for Products in "back-up" service
 - o 30 months from the date the Product leaves the plant
 - o 24 months from the Product's commissioning date
 - o 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),
 - o 18 months from the date the Product leaves the plant
 - o 12 months from the Product's commissioning date
 - o 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".