



RATINGS 400 V - 50	LI-7	
KATING3 400 V - 30	112	
Standby	kVA	1400
	kWe	1120
Prime	kVA	1273
	kWe	1018



REHLKO premium quality

Benefits & features

- 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) *	289
Consumption @ 100% load PRP (L/h) *	259
Emission level	Fuel consumption optimization
Type of Cooling	Mechanical driven fan

GENERATOR SETS RATINGS

				Standby Rating 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
DIMENSIONS	COMPACT	/ERS	ION					
Length (mm)						4765		
Width (mm)						2250		
Height (mm)						2465		
Tank capacity	/ (L)					500		
Dry weight (k	Dry weight (kg) 9150							
DIMENSIONS SOUNDPROOFED VERSION								
Type soundproofing NOT AVAILABLE								
Length (mm)	Length (mm) 6060							
Width (mm)	Width (mm) 2440							
Height (mm)		2896						
Tank capacity	Tank capacity (L) 500							
Dry weight (kg) 14940								
Acoustic pres (75% PRP)	sure level @	1m iı	n dB(A)) 50Hz		91		
Acoustic pres (75% PRP)	sure level @	7m iı	n dB(A)) 50Hz		82		

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



Engine

General	
Engine brand	BAUDOUIN
Engine ref.	12M33G1400_V2_5 *
Air inlet system	Turbo
Fuel	Diesel Fuel/HVO
Emission level	Fuel consumption optimization
Cylinder configuration	V
Number of cylinders	12
Displacement (I)	39,23
Bore (mm) * Stroke (mm)	150 * 185
Compression ratio	15:1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	1210
Charge Air coolant	Air/Air
Injection Type	Direct
Governor type	Electronic
Air cleaner type, models	Dry
Fuel system	
Maximum fuel pump flow (l/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	
Specific consumption @ ESP Max Power (g/kW.h)	200,50
Specific consumption @ PRP Max Power (g/kW.h)	197,50
Specific consumption @ 75% of PRP Power (g/kW.h)	194,20
Specific consumption @ 50% of PRP Power (g/kW.h)	197,30

Lubrication System			
Oil system capacity including filters (I) 160			
Min. oil pressure (bar) 2		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)	663		
Combustion air flow (I/s)	1392		
Exhaust system			
	PRP	ESP	
Exhaust gas flow (L/s)	3633	3950	
Exhaust gas temperature @ ESP (°C)	5	50	
Max. exhaust back pressure (mm H2O)	765		
Cooling system			
Radiator & Engine capacity (I)	2	40	
Fan power 50Hz (kW)	55		
Fan air flow w/o restriction (m3/s)	27,50		
Available restriction on air flow (mm H2O)	20		
Type of coolant	Gencool		
Coolant capacity HT, engine only (I)	83		
Max coolant temperature, Shutdown (°C)	103		
Thermostat begin of opening HT (°C)	77		
Thermostat end of opening HT (°C)	87		

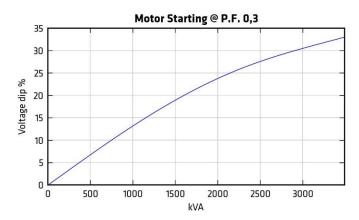


Application data	
Capacity for maintaining short circuit at 3 In for 10 s	Yes
Coupling	Direct
AVR Regulation	Yes
Number of wires	12
Insulation class	Н
Indication of protection	IP23
Technology	Brushless
Number of bearing	Single Bearing
Number of pole	4
REHLKO Alternator description	KH04830T
Alternator commercial brand	rehlko
Alternator Specifications	

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	0
(%)	0

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.



Dimensions compact version with baseframe fuel tank

Length (mm) * Width (mm) * Height (mm)	4765 * 2250 * 2465
Dry weight (kg)	9150
Tank capacity (L)	500



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 options	



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
ADMES	 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
 - o Automatic start-up pack including a battery charger and a preheating kit
 - o APM403 control/command (P or S) depending on configuration
 - 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),
 - o 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".