



RATINGS 400 V - 50 Hz			
Standby	kVA	1650	
	kWe	1320	
Prime	kVA	1500	
	kWe	1200	

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
- 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	
Voltage (V)	400/230
Standard Control Panel	APM403
Consumption @ 100% load ESP (L/h)	297.2
Type of Cooling	Mechanical driven fan

GENERATOR SETS RA	TING	S
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				Standby	Rating	Prime F	Rating
	Voltage	PH	Hz	kWe	kVA	kWe	kVA
D1.CEO	415/240	3	50	1320	1650	1200	1500
B1650	400/230	3	50	1320	1650	1200	1500
	380/220	3	50	1320	1650	1200	1500

ength (mm)	4740
Vidth (mm)	2198
leight (mm)	2470
ank capacity (L)	400
ry weight (kg)	9220



Engine	
General	
Engine brand	BAUDOUIN
Engine ref.	12M33G12D3/5
Air inlet system	Turbo
Fuel	Diesel Fuel/HVO
Cylinder configuration	V
Number of cylinders	12
Displacement (I)	39.23
Bore (mm) * Stroke (mm)	150 * 185
Compression ratio	15.7 : 1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	1393
Charge Air coolant	Air/Air
Injection Type	Direct
Governor type	High pressure common rail
Air cleaner type, models	Dry
Fuel system	
Maximum fuel pump flow (I/h)	1070
Fuel Inlet Minimum recommended size (mm)	14
Fuel Outlet Minimum recommended size (mm)	14
Maximum allowed inlet fuel temperature (°C)	70

Lubrication System			
Oil system capacity including filters (I)	acity including filters (I) 160		
Min. oil pressure (bar)	2		
Max. oil pressure (bar)	7		
Oil sump capacity (I)	155		
Oil consumption 100% ESP 50Hz (I/h)	0.98		
Air Intake system			
Max. intake restriction (mm H2O)	663		
Combustion air flow (I/s)	1650		
Exhaust system			
	PRP	ESP	
Exhaust gas temperature (°C)		550	
Exhaust gas flow (m3/min)	318.5 350.4		
Max. exhaust back pressure (mm H2O)	765		
Cooling system			
Radiator & Engine capacity (I)	2	40	
Coolant capacity of radiator and pipes (L)	220		
Fan power 50Hz (kW)	33		
Fan air flow w/o restriction (m3/s)	27.5		
Available restriction on air flow (mm H2O)	20		
Type of coolant	Gencool		
Max coolant temperature, Shutdown (°C)	103		
Thermostat begin of opening HT (°C)	77		
Thermostat end of opening HT (°C)	87		

g/kW.h

204.9

207.7

209.2

223.5

230.9

L/h

297.2

280.6

211.9

151

78

Consumption with cooling system

consumption @ 110% load

consumption @ 100% load

consumption @ 75% load

consumption @ 50% load consumption @ 25% load



rehlko KH03850T
KH03850T
111030301
4
Single Bearing
Brushless
IP23
Н
12
Yes
Direct
Yes
2250
0,80
0,50
<40
<2
2,5
1,9
200
1500
8

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) 4740 X 2250 X 2470

Dry weight (kg) 9612
Tank capacity (L) 400





50 Hz

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 gensets are fitted with:

- Industrial water-cooled DIESEL engine
- Electric starter & charge alternator
- Standard air filter
- 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
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- 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
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 250 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

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 ISO8528 standard



Industrial Diesel Generator Set – **B1650**50 Hz

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
 - 30 months from the date the Product leaves the plant
 - 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
 - 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".