



Ratings Range

400/230 V - 50 Hz

Standby	kW	35,2
	kVA	44
Prime	kW	32
	kVA	40



Benefits and features

Rehko premium quality

- Rehko 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

Rehko 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

Alternator

- Provide industry leading motor starting capability
- Excitation system to permit sustained overcurrent > 270% In, during 5 sec
- Built with a class H insulation and IP23

Cooling

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

Control panel

- The Rehko 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

Rehko 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

Generator sets ratings

	Hz	Standby rating			Prime rating	
		kWe	kVA	Amps	kWe	kVA
380/220	50	35,2	44	67	32	40
400/230	50	35,2	44	64	32	40
415/240	50	36	45	63	32,7	40,9

General Specifications

Manufacturer	Rehko
Engine ref.	4M06G44_5
Alternator choices	KH00602T
Performance class	G2
Voltage (V)	380/220 400/230 415/240
Controllers	APM303
Emission level	Fuel consumption optimization
Type of Cooling	Radiator
Factory installed enclosures	M137-B
** Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"	

Engine Specifications

Engine brand	Baudouin
Engine ref.	4M06G44_5*
Air inlet system	Turbo
Cylinder configuration	4 - L
Displacement (l)	2,29
Bore (mm) x Stroke (mm)	89 x 92
Compression ratio	17.5 : 1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	41
Governor type	Electronic
Frequency regulation, steady state (%)	+/- 0.5%

Lubrication System

Oil Filter Quantity and type****

Charge Air coolant

*****Rehko recommends the use of genuine oil and filters.*

Fuel System

Maximum fuel pump flow (l/h)	40
Max head on fuel return line (m fuel)	5,9
Fuel	Diesel Fuel/HVO

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

Consumption with cooling system

Specific consumption @ ESP Max Power (g/kW.h)	220,9
Specific consumption @ PRP Max Power (g/kW.h)	215,8
Specific consumption @ 75% of PRP Power (g/kW.h)	210,4
Specific consumption @ 50% of PRP Power (g/kW.h)	215

Exhaust system	
Exhaust gas temperature @ ESP (°C)	650
Exhaust gas flow @ ESP (l/s)	132
Electrical system	
Battery voltage (V)	12
Air Intake system	
Combustion air flow (l/s)	37
Radiated heat to ambient (kW)	5,3

Alternator Specifications	
Number of pole	4
Technology	Brushless
AVR Regulation	Yes
Insulation class	H
Indication of protection	IP23
Number of bearing	1
Number of wires	06
Coupling	Direct
Overspeed (rpm)	2250
Voltage regulation at established rating (+/- %)	0,5
Unbalanced load acceptance ratio (%)	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.



APM303 controller

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

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%.

Standard scope of supply:

All our open 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
- Separate 9 dB(A) silencer
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 250 kVA ESP
- 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

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

Dimensions and Weights

Compact version

Overall Size, max., L x W x H, (mm)	1700 x 896 x 1130
Dry weight (kg)	596
Tank capacity (L)	104



M137-B - Dimensions soundproofed version

Overall Size, max., L x W x H, (mm)	2100 x 938 x 1267
Tank capacity (L)	104
Dry weight (kg)	845
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	92
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	75
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	65



* 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 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.