



Ratings Range

400/230 V - 50 Hz

Standby	kW	7,1
	kVA	8,9
Prime	kW	6,5
	kVA	8,1



Benefits and features

Rehlko premium quality

- Design offices using the latest technical innovations
- Modern fully certified factories
- A cutting edge laboratory
- The generating 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

- Optimized and certified sound levels
- Reliable power, even in extreme conditions
- Optimized fuel consumption
- Compact footprint
- Best quality of electricity, high starting and loading capacity, according to ISO8528-5
- Robust base frames and high-quality enclosures
- Protection of installations and people
- Approved in line with the most stringent standards

Engines

- Premium level engines, in-house or from strong partners
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

Alternator

- Provide industry leading motor starting capability
- Made in Europe
- Built with a class H insulation and IP23

Cooling

- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by Rehlko
- High temperature and altitude product capacity available

Base frame and enclosure

- High quality steel with enhanced corrosion resistance
- Highly durable QUALICOAT-certified epoxy paint
- Minimum 1000 hours of resistance to salt spray in accordance with ISO12944
- Ergonomic access to allow easy maintenance and connection of the generator
- Robust design optimized for transportation

Generator sets ratings

		Standby rating			Prime rating	
	Hz	kWe	kVA	Amps	kWe	kVA
220 TRI	50	7,1	8,9	23	6,5	8,1
400/230	50	7,1	8,9	13	6,5	8,1
380/220	50	7,1	8,9	14	6,5	8,1
240 TRI	50	7,1	8,9	21	6,5	8,1
230 TRI	50	7,1	8,9	22	6,5	8,1
220/127	50	7,1	8,9	23	6,5	8,1
415/240	50	7,1	8,9	12	6,5	8,1

General Specifications

Manufacturer	Rehlko
Engine ref.	KDW1003
Alternator choices	KH00260T
Performance class	G2
Voltage (V)	220 TRI 400/230 380/220 240 TRI 230 TRI 220/127 415/240
Controllers	APM303 Terminal block
Consumption @ 100% load ESP (L/h)*	3
Consumption @ 100% load PRP (L/h)*	3
Emission level	Fuel consumption optimization
Type of Cooling	Radiator
Factory installed enclosures	M125
** Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"	

Engine Specifications

Engine brand	Rehiko
Engine ref.	KDW1003*
Air inlet system	Atmo
Cylinder configuration	3 - L
Displacement (l)	1,03
Bore (mm) x Stroke (mm)	75 x 77,6
Compression ratio	22,8 : 1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	8,5
Governor type	Mechanical
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state (%)	+/- 2.5%

Lubrication System

Oil Filter Quantity and type****

Charge Air coolant

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

Fuel System

Maximum fuel pump flow (l/h)	50
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

Fuel consumption @ ESP Max Power (l/h)	2,7
Fuel consumption @ PRP Max Power (l/h)	2,5
Fuel consumption @ 75% of PRP Power (l/h)	1,9
Fuel consumption @ 50% of PRP Power (l/h)	1,3

Exhaust system

Heat rejection to exhaust (kW)	9
Exhaust gas temperature @ ESP (°C)	440
Exhaust gas flow @ ESP (l/s)	30,7

Electrical system

Battery voltage (V)	12
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Air Intake system

Combustion air flow (l/s)	12,8
Radiated heat to ambient (kW)	1

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	12
Coupling	Direct
Overspeed (rpm)	2250
Voltage regulation at established rating (+/- %)	1
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
- 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.



Basic terminal block

It is used as a basic terminal block for connecting a control unit. Offers the following functions:

- emergency stop button
- customer connection terminal block
- CE certified



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%.

Warranty informations

Standard warranty period:

- for Products in "back-up" service
 - 36 months from the date the Product leaves the plant
 - 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),
 - 24 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".

Standard scope of supply

All our gensets are fitted with:

- Industrial water cooled DIESEL engine
- Electric starter & charge alternator
- Standard air filter
- Schneider or ABB 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
- 4 lifting points on the chassis, lifting bar on the top included from 165 kVA ESP or optional
- highly durable QUALICOAT certified epoxy paint
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- IP 64 locks, made from stainless materials
- 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 110 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
- Delivered with oil and antifreeze liquid

Dimensions and Weights

Compact version

Overall Size, max., L x W x H, (mm)	1220 x 700 x 920
Dry weight (kg)	290
Tank capacity (L)	50

M125 - Dimensions soundproofed version

Overall Size, max., L x W x H, (mm)	1482 x 760 x 1030
Tank capacity (L)	50
Dry weight (kg)	390
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	85
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	67
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	54

* 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.