



Ratings Range

208/120 V - 60 Hz

Standby	kW	226
	kVA	283
Prime	kW	206
	kVA	257



Benefits and features

Rehko 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

Rehko 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

- Rehko Premium level engines
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

Alternator

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

Cooling

- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by Rehko
- 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 1500 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

	Hz	Standby rating			Prime rating	
		kWe	kVA	Amps	kWe	kVA
208/120	60	226	283	786	206	257
380/220	60	216	270	410	196	245

General Specifications

Manufacturer	Rehko
Engine ref.	KD83L06T-AA56B
Alternator choices	KH01222T
Performance class	G3
Controllers	APM303
Consumption @ 100% load ESP (L/h)*	65
Consumption @ 100% load PRP (L/h)*	57
Emission level	Not certified
Type of Cooling	Radiator
Factory installed enclosures	M149
** Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"	

Engine Specifications

Engine brand	Rehlko
Engine ref.	KD83L06T-AA56B*
Air inlet system	Turbo
Cylinder configuration	6 - L
Displacement (l)	8,27
Bore (mm) x Stroke (mm)	114 x 135
Compression ratio	16.7:1
Speed (RPM)	1800
Maximum stand-by power at rated RPM 60Hz (kW)	263
Governor type	Electronic
Frequency regulation, steady state (%)	+/- 0.5%

Lubrication System

Oil Filter Quantity and type****	Spin On / 1
Charge Air coolant	Air/Air

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

Fuel System

Maximum fuel pump flow 60Hz (l/h)	98
Fuel filter: Qty, type	1 / 1 Primary Engine Filter / Fuel Water Separator
Fuel	Diesel Fuel

* 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 60Hz (l/h)	65
Fuel consumption @ PRP Max Power 60Hz (l/h)	57,1
Fuel consumption @ 75% of PRP Power 60Hz (l/h)	43,9
Fuel consumption @ 50% of PRP Power 60Hz (l/h)	30,9

Cooling system

Radiator & Engine capacity (l)	29,2
Fan power 60Hz (kW)	10
Fan air flow w/o restriction (m3/s)	4,7
Available restriction on air flow (mm H2O)	20
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	24
Heat rejection to coolant HT (kW)	93
HT circuit flow rate (l/min)	240
Coolant capacity HT, engine only (l)	12,3
Max coolant temperature, Shutdown (°C)	104
Thermostat begin of opening HT (°C)	82
Thermostat end of opening HT (°C)	95

Exhaust system

Exhaust gas temperature @ ESP 60Hz (°C) 542

Exhaust gas flow @ ESP 60Hz (l/s) 790

Electrical system

Battery voltage (V) 12

Air Intake system

Combustion air flow (l/s) 295

Radiated heat to ambient (kW) 24

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 (+/- %) 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
- 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
- Engine electronic governor
- Electric starter & charge alternator
- Battery⁽¹⁾
- 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
- Oil⁽²⁾ and antifreeze liquid⁽²⁾
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film

⁽¹⁾ excluded from the supply up to 165 kVA ESP if assembled outside Europe

⁽²⁾ excluded from the supply up to 830 kVA ESP if assembled outside Europe

Dimensions and Weights

Compact version – Radiator

Overall Size, max., L x W x H, (mm)	2497 x 1103 x 1644
Dry weight (kg)	1840
Tank capacity (L)	344



M149 - Dimensions soundproofed version – Radiator

Overall Size, max., L x W x H, (mm)	3590 x 1147 x 1899
Tank capacity (L)	344
Dry weight (kg)	2400
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	88
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	78



* 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.