



Ratings Range

400/230 V - 50 Hz

Standby	kW	720
	kVA	900
Prime	kW	654
	kVA	818



Benefits and features

Rehiko 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

Rehiko 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 Rehiko
- 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

	Hz	Standby rating			Prime rating	
		kWe	kVA	Amps	kWe	kVA
400/230	50	720	900	1299	654	818
380/220	50	720	900	1367	654	818
415/240	50	720	900	1252	654	818

General Specifications

Manufacturer	Rehiko
Engine ref.	DP222CB
Alternator choices	KH02970T KH03450T
Performance class	G3
Voltage (V)	400/230 380/220 415/240
Controllers	APM403
Consumption @ 100% load ESP (L/h)*	188
Consumption @ 100% load PRP (L/h)*	169
Emission level	Fuel consumption optimization
Type of Cooling	Radiator
Factory installed enclosures	M427
** Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"	

Engine Specifications

Engine brand	DOOSAN / HYUNDAI
Engine ref.	DP222CB*
Air inlet system	Turbo
Cylinder configuration	12 - V
Displacement (l)	21,93
Bore (mm) x Stroke (mm)	128 x 142
Compression ratio	14.6 : 1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	790
Governor type	Electronic
Frequency regulation, steady state (%)	+/- 0.25%

Lubrication System

Oil Filter Quantity and type****

Charge Air coolant Air/Air

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

Fuel System

Maximum fuel pump flow (l/h) 386

Max head on fuel return line (m fuel) 2,4

Fuel Filter Quantity and type

Fuel Diesel Fuel

Cooling system

Radiator & Engine capacity (l)	90
Fan power 50Hz (kW)	21
Fan air flow w/o restriction (m3/s)	12,8
Available restriction on air flow (mm H2O)	13,2
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	43
Heat rejection to coolant HT (kW)	350
Coolant capacity HT, engine only (l)	24
Max coolant temperature, Shutdown (°C)	103
Thermostat begin of opening HT (°C)	71
Thermostat end of opening HT (°C)	85

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

Exhaust system

Heat rejection to exhaust (kW)	598
Exhaust gas temperature @ ESP (°C)	525
Exhaust gas flow @ ESP (l/s)	2266,7

Electrical system

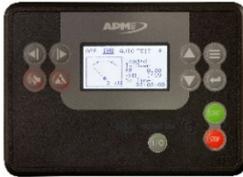
Battery voltage (V)	24
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Air Intake system

Combustion air flow (l/s)	733
Radiated heat to ambient (kW)	43

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



APM403 controller

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, Start-up 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

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

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
 - 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),
 - 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".

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)

Excluded from the supply:

- For XPRESS products, from 25 to 1500 kVA: oil and antifreeze liquid

Dimensions and Weights

Compact version

Overall Size, max., L x W x H, (mm)	3726 x 1720 x 2079
Dry weight (kg)	5480
Tank capacity (L)	500



M427 - Dimensions soundproofed version

Overall Size, max., L x W x H, (mm)	6412 x 2160 x 2753
Tank capacity (L)	1035
Dry weight (kg)	7560
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	107
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	87
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	77



* 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.