



Ratings Range

480/277 V - 60 Hz

Standby	kW	600
	kVA	750
Prime	kW	546
	kVA	682



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

		Standby rating			Prime rating	
	Hz	kWe	kVA	Amps	kWe	kVA
480/277	60	600	750	902	546	682

General Specifications

Manufacturer	Rehiko
Engine ref.	DP180LB
Alternator choices	KH02713T KH02954T
Performance class	G3
Voltage (V)	480/277
Controllers	APM303 APM403 Terminal block M80
Consumption @ 100% load ESP (L/h)*	166
Consumption @ 100% load PRP (L/h)*	152
Emission level	Fuel consumption optimization
Type of Cooling	Radiator
Factory installed enclosures	M240 M240-DW
** Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"	

Engine Specifications

Engine brand	DOOSAN / HYUNDAI
Engine ref.	DP180LB*
Air inlet system	Turbo
Cylinder configuration	10 - V
Displacement (l)	18,27
Bore (mm) x Stroke (mm)	128 x 142
Compression ratio	15 : 1
Speed (RPM)	1800
Maximum stand-by power at rated RPM 60Hz (kW)	661
Governor type	Electronic
Frequency regulation, steady state (%)	+/- 0.25%

Lubrication System

Oil Filter Quantity and type****	
Charge Air coolant	Air/Air

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

Fuel System

Maximum fuel pump flow 60Hz (l/h)	630
Max head on fuel return line (m fuel)	1
Fuel Filter Quantity and type	
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)	165,3
Fuel consumption @ PRP Max Power 60Hz (l/h)	150,7
Fuel consumption @ 75% of PRP Power 60Hz (l/h)	114,2
Fuel consumption @ 50% of PRP Power 60Hz (l/h)	77,7

Cooling system

Radiator & Engine capacity (l)	123
Fan power 60Hz (kW)	38
Fan air flow w/o restriction (m3/s)	16
Available restriction on air flow (mm H2O)	
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	63
Heat rejection to coolant HT (kW)	297
Coolant capacity HT, engine only (l)	21
Max coolant temperature, Shutdown (°C)	103
Thermostat begin of opening HT (°C)	71
Thermostat end of opening HT (°C)	85

Exhaust system

Heat rejection to exhaust (kW)	620
Exhaust gas temperature @ ESP 60Hz (°C)	540
Exhaust gas flow @ ESP 60Hz (l/s)	2350

Electrical system

Battery voltage (V)	24
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Air Intake system

Combustion air flow (l/s)	758
Radiated heat to ambient (kW)	63

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.



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



M80 controller

The M80 is a dual-function control panel. It can be used as a basic terminal block for connecting a control unit and as an instrument panel with a direct read facility, with displays giving a global view of your generating set's basic parameters. Offers the following functions:

- Engine parameters: tachometer, working hours counter, coolant temperature indicator, oil pressure indicator
- 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



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

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 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)	3620 x 1900 x 2122
Dry weight (kg)	3913
Tank capacity (L)	600



M240 - Dimensions soundproofed version

Overall Size, max., L x W x H, (mm)	5320 x 2071 x 2658
Tank capacity (L)	600
Dry weight (kg)	5683
Guaranteed acoustic power level (Lwa) 60Hz (100% PRP)	
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	93
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	83



M240 - Dimensions DW soundproofed version

Overall Size, max., L x W x H, (mm)	5367 x 2153 x 2933
Tank capacity (L)	2175
Dry weight (kg)	6589
Guaranteed acoustic power level (Lwa) 60Hz (100% PRP)	
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	93
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	83

** 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.