



Ratings Range

400/230 V - 50 Hz

Standby kW 280 **kVA** 350

Prime kW 254 kVA 318



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

General Specifications

Manufacturer	Rehlko
Engine ref.	TAD1341GE-B
Alternator choices	KH02100T
	KH02101T
Performance class	G3

Voltage (V)	220 TRI
	400/230
	380/220
	200/115
	240 TRI
	230 TRI
	415/240

Controllers APM403 APM802 M80-D Terminal block

Consumption @ 100% load ESP (L/h)* 70
Consumption @ 100% load PRP (L/h)* 63

Emission level Emission optimization - Stage II

Compliant

Max. Data Center Continuous (DCC) Rating Same as the Prime Rating below

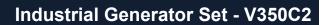
Type of Cooling Radiator
Factory installed enclosures M228-DB
M228
M228-DW-DB
M228-DW

"* Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"

Generator sets ratings

	Standby rating Prime rating		Standby rating		rating	
	Hz	kWe	kVA	Amps	kWe	kVA
220 TRI	50	280	350	919	254	318
400/230	50	280	350	505	254	318
380/220	50	280	350	532	254	318
200/115	50	280	350	1010	254	318
240 TRI	50	280	350	842	254	318
230 TRI	50	280	350	879	254	318
415/240	50	280	350	487	254	318

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Engine Specifications			
Engine brand	VOLVO		
Engine ref.	TAD1341GE-B*		
Air inlet system	Turbo		
Cylinder configuration	6 - L		
Displacement (I)	12,78		
Bore (mm) x Stroke (mm)	131 x 158		
Compression ratio	18.5 : 1		
Speed 50Hz (RPM)	1500		
Maximum stand-by power at rated RPM (kW)	308		
Governor type	Electronic		
Frequency regulation, no-load to full-load	Isochronous		
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 (I/h)	90		
Max head on fuel return line (m fuel)	2,4		
Fuel Filter Quantity and type			
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 (I/h)	70,3
Fuel consumption @ PRP Max Power (I/h)	63,5
Fuel consumption @ 75% of PRP Power (I/h)	48,1
Fuel consumption @ 50% of PRP Power (I/h)	33,4
Cooling system	
Radiator & Engine capacity (I)	44
Fan power 50Hz (kW)	10
Fan air flow w/o restriction (m3/s)	6,7
Available restriction on air flow (mm H2O)	20
Type of coolant	Glycol-Ethylene
Radiated heat to ambiant (kW)	10
Heat rejection to coolant HT (kW)	133
Coolant capacity HT, engine only (I)	20
Outlet coolant temperature (°C)	92
Max coolant temperature, Shutdown (°C)	107
Max. pressure at inlet of HT water pump (mbar)	1000
Thermostat begin of opening HT (°C)	82
Thermostat end of opening HT (°C)	92

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Exhaust system	
Heat rejection to exhaust (kW)	203
Exhaust gas temperature @ ESP (°C)	414
Exhaust gas flow @ ESP (I/s)	867
Electrical system	
Battery voltage (V)	24
Air Intake system	
Combustion air flow (I/s)	402
Radiated heat to ambiant (kW)	10

Alternator Specifications	
Number of pole	4
Technology	Brushless
AVR Regulation	Yes
Insulation class	Н
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 constructio
- 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.

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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-D controller

The M80-D can be used as a basic terminal block for connecting a control unit and as an instrument panel with a highly intuitive LCD screen giving an overview of your generating set's basic parameters:

- · Oil gauge
- · Coolant temperature
- · Oil temperature
- Engine speed
- · Battery voltage
- Charge air temperature
- Fuel consumption, etc.

The engine main functions can be controlled and events are recorded to facilitate diagnostics:

- Starting
- · Speed adjustment
- Stopping
- Droop, etc.



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 Directive2014/30/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
 - o 30 months from the date the Product leaves the plant
 - o 24 months from the Product's commissioning date
 - o 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),
 - o 18 months from the date the Product leaves the plant
 - o 12 months from the Product's commissioning date
 - o 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 shortcircuit 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)

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APM802 controller Advanced power plant management control

Dedicated to power plant management APM802 provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility

- Graphic display with touchscreen
- User language selectable
- Specially researched ergonomics
- High level of equipment availability USB and Ethernet ports
- Modbus protocol
- Making it easy to extend the installation
- -Complies with the international standard IEC 61131-3

- Packing under plastic film
- Delivered with oil and antifreeze liquid

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Dimensions and Weights

Compact version	
Overall Size, max., L x W x H, (mm)	3160 x 1340 x 1805
Dry weight (kg)	3103
Tank capacity (L)	470



M228 soundproofed version - In compliance with 2000/14/CE standard

Overall Size, max., L x W x H, (mm)	4475 x 1410 x 2430
Tank capacity (L)	470
Dry weight (kg)	4035
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	97
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	77
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	67



M228 soundproofed version - Not compliant with 2000/14/CE noise emissions Directive**

emissions Directive**	
Overall Size, max., L x W x H, (mm)	4475 x 1410 x 2430
Tank capacity (L)	470
Dry weight (kg)	4035
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	100
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	81
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	71

M228 DW soundproofed version - In compliance with 2000/14/CE standard

Overall Size, max., L x W x H, (mm)	4527 x 1410 x 2700
Tank capacity (L)	1368
Dry weight (kg)	4588
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	97
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	76
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	67



M228 DW soundproofed version - Not compliant with 2000/14/CE noise emissions Directive**

emissions directive	
Overall Size, max., L x W x H, (mm)	4527 x 1410 x 2700
Tank capacity (L)	1368
Dry weight (kg)	4558
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	100
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	80
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	70

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* 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.

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