



Ratings Range

480/277 V - 60 Hz

350 Standby kW kVA 438

kW 318 **Prime**

kVA 398



block

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

- 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

- 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. TAD1342GE-B Alternator choices KH02101T Performance class G3

Voltage (V) 480/277 440/254

220/127 Controllers APM403 APM802 M80-D Terminal

Consumption @ 100% load ESP (L/h)* 95 Consumption @ 100% load PRP (L/h)* 86

Emission optimization - Stage II **Emission level** Compliant

Data Center / Mission Critical Rating Same as the Prime Rating below Type of Cooling Radiator Factory installed enclosures M228 M228-DW

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

Generator sets ratings

		Standby rating		Prime rating		
	Hz	kWe	kVA	Amps	kWe	kVA
480/277	60	350	438	527	318	398
440/254	60	350	438	575	318	398
220/127	60	350	438	1149	318	398

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Engine Specifications	
Engine brand	VOLVO
Engine ref.	TAD1342GE-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 (RPM)	1800
Maximum stand-by power at rated RPM 60Hz (kW)	395
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 filters.	of genuine oil and
Fuel System	
Maximum fuel pump flow 60Hz (I/h)	130
Max head on fuel return line (m fuel)	2,4
Fuel Filter Quantity and type	

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

Fuel

Diesel Fuel/HVO

Consumption with cooling system	
Fuel consumption @ ESP Max Power 60Hz (I/h)	96,2
Fuel consumption @ PRP Max Power 60Hz (I/h)	87,1
Fuel consumption @ 75% of PRP Power 60Hz (I/h)	64,1
Fuel consumption @ 50% of PRP Power 60Hz (I/h)	44
Cooling system	
Radiator & Engine capacity (I)	44
Fan power 60Hz (kW)	18
Fan air flow w/o restriction (m3/s)	8,2
Available restriction on air flow (mm H2O)	25
Type of coolant	Glycol-Ethylene
Radiated heat to ambiant (kW)	23
Heat rejection to coolant HT (kW)	172
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)	287
Exhaust gas temperature @ ESP 60Hz (°C)	481
Exhaust gas flow @ ESP 60Hz (I/s)	1158
Electrical system	
Battery voltage (V)	24
Air Intake system	
Combustion air flow (I/s)	478
Radiated heat to ambiant (kW)	23

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	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%.

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

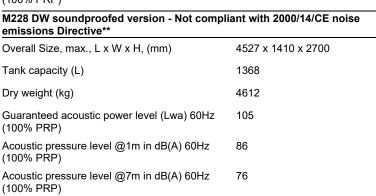
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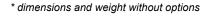


Dimensions and Weights

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

Overall Size, max., L x W x H, (mm)	4475 x 1410 x 2430
	4410 X 1410 X 2400
Tank capacity (L)	470
Dry weight (kg)	4082
Guaranteed acoustic power level (Lwa) 60Hz (100% PRP)	105
Acoustic pressure level @1m in dB(A) 60Hz (100% PRP)	86
Acoustic pressure level @7m in dB(A) 60Hz (100% PRP)	76









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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