



Ratings Range

480/277 V - 60 Hz

Standby 60 kW

kVA



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

75 kVA

kW 54 Prime

| | APPI | AOVE | FOR | 9 |
|---|------|------|-------|---|
| 1 | H | V | C | |
| 1 | PENE | WABL | E FUE | |
| | | | | |

block

General Specifications

| Manufacturer | Rehlko |
|--------------------|-----------|
| Engine ref. | 4045TSG20 |
| Alternator choices | KH00811T |
| Performance class | G3 |

Voltage (V) 480/277 440/254

220/127 Controllers APM303 APM403 M80 Terminal

Consumption @ 100% load ESP (L/h)* 18 Consumption @ 100% load PRP (L/h)* 17

Emission level Fuel consumption optimization

Type of Cooling Radiator Factory installed enclosures M138 M138-DW M138-DW48

"* 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 | 60 | 75 | 90 | 54 | 68 |
| 440/254 | 60 | 58 | 73 | 96 | 53 | 66 |
| 220/127 | 60 | 58 | 73 | 192 | 53 | 66 |

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| Engine Specifications | | | | |
|---|------------|--|--|--|
| Engine brand | JOHN DEERE | | | |
| Engine ref. | 4045TSG20* | | | |
| Air inlet system | Turbo | | | |
| Cylinder configuration | 4 - L | | | |
| Displacement (I) | 4,48 | | | |
| Bore (mm) x Stroke (mm) | 106 x 127 | | | |
| Compression ratio | 17 : 1 | | | |
| Speed (RPM) | 1800 | | | |
| Maximum stand-by power at rated RPM 60Hz (kW) | 97 | | | |
| Governor type | Mechanical | | | |

Lubrication System

Oil Filter Quantity and type****

Charge Air coolant Without charge cooling

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

| Fuel System | |
|---------------------------------------|-----------------|
| Maximum fuel pump flow 60Hz (I/h) | 112 |
| Max head on fuel return line (m fuel) | 1 |
| 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 60Hz (I/h) | 25,1 |
| Fuel consumption @ PRP Max Power 60Hz (I/h) | 23,1 |
| Fuel consumption @ 75% of PRP Power 60Hz (I/h) | 17,7 |
| Fuel consumption @ 50% of PRP Power 60Hz (I/h) | 12,7 |

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Industrial Generator Set - J60U



| Exhaust system | _ |
|---|-----|
| Heat rejection to exhaust (kW) | |
| Exhaust gas temperature @ ESP 60Hz (°C) | 560 |
| Exhaust gas flow @ ESP 60Hz (l/s) | 337 |
| Electrical system | |
| Battery voltage (V) | 12 |
| Air Intake system | |
| Combustion air flow (I/s) | 122 |
| 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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Industrial Generator Set - J60U





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 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



Dimensions and Weights

| Compact version | |
|-------------------------------------|--------------------|
| Overall Size, max., L x W x H, (mm) | 1950 x 1084 x 1455 |
| Dry weight (kg) | 908 |
| Tank capacity (L) | 190 |



| M138 - Dimensions soundproofed version | | | | |
|---|--------------------|--|--|--|
| Overall Size, max., L x W x H, (mm) | 2572 x 1126 x 1571 | | | |
| Tank capacity (L) | 190 | | | |
| Dry weight (kg) | 1246 | | | |
| Guaranteed acoustic power level (Lwa) 60Hz (100% PRP) | | | | |
| Acoustic pressure level @1m in dB(A) 60Hz (100% PRP) | 81 | | | |
| Acoustic pressure level @7m in dB(A) 60Hz (100% PRP) | 71 | | | |



| M138 - Dimensions DW soundproofed version | | |
|---|--|--|
| 2600 x 1150 x 1792 | | |
| 500 | | |
| 1553 | | |
| | | |
| 81 | | |
| 71 | | |
| | | |



| M138 - Dimensions DW 48h soundproofed version | | | |
|---|--------------------|--|--|
| Overall Size, max., L x W x H, (mm) | 2600 x 1150 x 1858 | | |
| Tank capacity (L) | 825 | | |
| Dry weight (kg) | 1592 | | |
| Guaranteed acoustic power level (Lwa) 60Hz (100% PRP) | | | |
| Acoustic pressure level @1m in dB(A) 60Hz (100% PRP) | 81 | | |
| Acoustic pressure level @7m in dB(A) 60Hz (100% PRP) | 71 | | |



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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^{*} dimensions and weight without options