

Model:2000REOZM

380 V - 416V Diesel

Ratings Range

		50Hz
Standby	kW	1800
	kVA	2250
Prime	kW	1635
	kVA	2044



- REHLKO provides one-source responsibility for the generating system and accessories
- The generator set and its components are prototypedtested, factory-built and production tested
- The generator set accepts 100% one step load
- The generator set complies with ISO8528-5, G3 requirement for transient performance
- A one-year limited warranty covers all systems and components.
- Generator features:
 - The brushless, rotating-field generator has broadrange reconnectability
 - PMG provides superior short-circuit capability

				Standby F	Rating	Prime Ra	ting
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	220/380	3	50	1800/2250	3419	1635/2044	3105
744RSL8056	230/400	3	50	1800/2250	3248	1635/2044	2950
	240/416	3	50	1800/2250	3130	1635/2044	2843

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Alternator Specification

Specification	Generator	•	NMEA MG1, IEEE and ANSI standards
Туре	4 pole rotating field		compliance for temperature rise and motor
Exciter Type	PMG		starting
Voltage regulator	Solid State	•	Sustained short-circuit current of up to
Insulation	NEMA MG1		300% of the rated current for up to 10
Material	Class H		seconds
Temperature rise	125 °C prime	•	Sustained short-circuit current enabling
Bearing: quantity, type	1,sealed		downstream circuit breakers to trip without
Coupling	Flexible Disc		collapsing the generator field
Amortisseur windings	Full	•	Self-ventilated and dirpproof construction
Voltage regulation	±0.25%	•	Digital solid-state,volts-per-hertz voltage
One step load acceptance	100%		regulator with ±0.25% no load to full load
Unbalanced load capability	100% rated standby current		regulation

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Application Data

Engine		Exhaust
Engine specifications	50Hz	Exhaust system
Engine manufacturer	MHI	Exhaust flow at prime power, m^3/min
Engine model	S16R-Y1PTAA2-3	Exhaust temperature °C
Engine turbo	Turbocharged	Max.allowable back pressure mmH_2O
Cylinder arrangement	16V	Exhaust outlet size mm (in.)
Displacement, L	65.4	
Bore and stroke, mm	170 x 180	Engine Electrical
Compression ratio	14:1	Engine Electrical system
Piston speed, m/min	540	Battery charging alternator
Rated rpm	1500	Grounding
Max.power at rated rpm kWm	1939	Voltage
Cylinder head material	Cast Iron	Ampere rating
Crankshaft material	Forged Steel	Starter motor rated voltage
Governor type	Woodward	Battery, recommended cold cranking amps
Frequency regulation	Isochronous	
Frequency regulation (steady state)	±0.25%	
Frequency	Fixed	
Air cleaner type	Dry	

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50Hz

390

536

600

See drawing

50Hz

Negative 24V DC 30A Dual, 24V DC

4,1000A

Application Data

Fuel

Fuel system	50Hz
Fuel supply line, min ID, mm	25
Fuel return line, min ID, mm	19
Max. fuel flow, Lph	560
Max, fuel pump restriction, kPa	10
Fuel filter: quantity, type	4, secondary

Lubrication

Lubrication system	50Hz
Туре	Full pressure
Oil pan capacity, L	200
Oil pan capacity with filter, L	230
Oil filter: quantity, type	4, Cartridge
Oil cooler	Water-cooled
Cooling	
Radiator system	50Hz
Ambient temperature °C	40
Coolant capacity (engine only) L	170
Coolant capacity (engine and radiator) L	350
Engine jacket water flow, Lpm	1650
Water pump type	Centrifugal
Fan diameter	1880mm
Fan loss kW	42
Max.restriction of cooling air, intake and discharge side of radiator, kPa	0.125

Operation requirements	
Air requirements	50Hz
Radiator cooled cooling air, m^3 /min.	2208.3
Combustion air, m3/min	164
Heat rejected to ambient air	
Engine, kW	144
Alternator, kW	97
Air Density 1.20 kg/m3 (0.075 lbm/ft3).	
Fuel Consumption	50Hz
Diesel L/h	Standby
100% load	462
75% load	338
50% load	231
25% load	128
Diesel L/h	Prime
100% load	415
75% load	309
50% load	214
25% load	122



The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements: voltage and current •
- kW/kWh/kVA power meters •
- 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 •
- Mains and genset protection •
- **Clock management** •
- USB connections, USB Host and PC, •
- Communications: RS485 INTERFACE
- ModBUS protocol /SNMP

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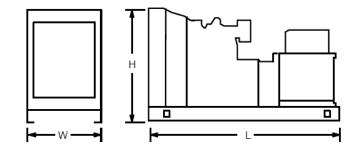
Standard Configuration

- Diesel engine
- Mechanical cooling system
- Alternator:
 - DVR2400
 - PMG
- APM403 Controller (with battery charger)
- Fuel Hose
- Air filter indicator

Option

- Space Heater
- Droop CT
- Winding PT100
- Bearing PT100
- Muffler (18-25dBA)
- Coolant and oil
- Exhaust bellow
- Starting battery group
- Spring isolator

Dimension and weight



L x W x H (mm): 6296 x 2170 x 3252 Dry weight (kg): 14400 Wet weight (kg): 15500