Model:1250REOZM

KOHLER. Power Systems

380 V - 416V

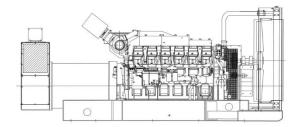
Diesel

Version: 2023-1



Ratings Range

		50Hz	
Standby	kW kVA	1108 – 1112	
Standby	kVA	1385 – 1390	
Prime	kW	1012 – 1016	
riine	kVA	1265 - 1270	



Standard Features:

- Kohler Co. 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 Rating		Prime Rating	
Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
220/380	3	50	1108/1385	2104	1012/1265	1922
230/400	3	50	1112/1390	2006	1016/1270	1833
240/416	3	50	1108/1385	1927	1016/1270	1767
	220/380 230/400	220/380 3 230/400 3	220/380 3 50 230/400 3 50	Voltage Ph Hz kW/kVA 220/380 3 50 1108/1385 230/400 3 50 1112/1390	Voltage Ph Hz kW/kVA Amps 220/380 3 50 1108/1385 2104 230/400 3 50 1112/1390 2006	Voltage Ph Hz kW/kVA Amps kW/kVA 220/380 3 50 1108/1385 2104 1012/1265 230/400 3 50 1112/1390 2006 1016/1270 240/416 3 50 1108/1385 1927 1016/1270

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

Alternator Specification

Specification	Generator
Туре	4pole rotating field
Exciter Type	PMG
Voltage regulator	Solid State
Insulation	NEMA MG1
Material	Class H
Temperature rise	125 °C prime
Bearing: quantity, type	1,sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation (no load to full load)	±0.25%
One step load acceptance	100%
Unbalanced load capability	100% rated standby current

- NEMA MG1,IEEE and ANSI standards compliance for temperature rise and motor starting
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field
- Self-ventilated and dirpproof construction
- Digital solid-state, volts-per-hertz voltage regulator with ±0.25% no load to full load regulation

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Application Data

Engine		Exhaust	
Engine specifications	50Hz	Exhaust system	50Hz
Engine manufacturer	MHI	Exhaust flow at prime power, m^3/min	242
Engine model	S12R-PTA-3	Exhaust temperature °C	526
Engine turbo	Turbocharged	Max.allowable back pressure mmH_2O	600
Cylinder arrangement	12V	Exhaust outlet size mm (in.)	See drawing
Displacement, L	49.03		
Bore and stroke, mm	170 x 185	Engine Electrical	
Compression ratio	15:1	Engine Electrical system	50Hz
Piston speed, m/min	540	Battery charging alternator	
Rated rpm	1500	Grounding	Negative
Max.power at rated rpm kWm	1220	Voltage	24V DC
Cylinder head material	Cast Iron	Ampere rating	30A
Crankshaft material	Forged Steel	Starter motor rated voltage	Dual, 24V DC
Governor type	Woodward	Battery, recommended cold cranking amps (CCA)	4,1000A
Frequency regulation	Isochronous		
Frequency regulation (steady state)	±0.25%		
Frequency	Fixed		
Air cleaner type	Dry		

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Application Data

Fuel		Operation requirements	
Fuel system	50Hz	Air requirements	50Hz
Fuel supply line, min ID, mm	25	Radiator cooled cooling air, m^3/min .	1776.8
Fuel return line, min ID, mm	19	Combustion air, m3/min	101
Max. fuel flow, Lph	430	Heat rejected to ambient air	
Max, fuel pump restriction, kPa	10	Engine, kW (Btu/min.)	88 (5014)
Fuel filter: quantity, type	4, secondary	Alternator, kW (Btu/min.)	64 (3640)
		Air Density 1.20 kg/m3 (0.075 lbm/ft3).	
Lubrication		Fuel Consumption	50Hz
Lubrication system	50Hz	Diesel L/h	Standby
Туре	Full pressure	100% load	282
Oil pan capacity, L	150	75% load	213
Oil pan capacity with filter, L	180	50% load	148
Oil filter: quantity, type	4, Cartridge	25% load	84
Oil cooler	Water-cooled	Diesel L/h	Prime
Cooling		100% load	257
Radiator system	50Hz	75% load	196
Ambient temperature °C	40	50% load	138
Coolant capacity (engine only) L	125	25% load	81
Coolant capacity (engine and radiator) L	260	ADM	
Engine jacket water flow, Lpm	1650	1975 1975 1975 1975 1975 1975 1975 1975	
Fan loss kW	47		
Max.restriction of cooling air, intake and discharge side of radiator, kPa	0.125	MM © S	

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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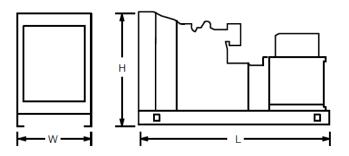
Standard Configuration

- 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
- · Coolant and oil
- Exhaust bellow
- · Starting battery group
- Spring isolator

Dimension and weight



L x W x H (mm): 5080 x 2226 x 2232

Dry weight (kg): 10400 Wet weight (kg): 11310

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