Model:1250REOZM

kVA 1385 - 1390 1012 - 1016

kW



KOHLER, Power Systems



•	Kohler Co. pro	vides 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:**

Standard Features:

- The brushless, rotating-field generator has broadrange reconnectability
- PMG provides superior short-circuit capability

				Standby F	Rating	Prime Ra	ating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	220/380	3	50	1108/1385	2104	1012/1265	1922
742RSL8050	230/400	3	50	1112/1390	2006	1016/1270	1833
	240/416	3	50	1108/1385	1927	1016/1270	1767

50Hz

1108 - 1112

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.

380 V - 416V

Diesel





Ratings Range

Standby

Alternator Specification

Specification	Generator	NEMA MG1,IEEE and ANSI standards
Туре	4pole 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 (no load to full load)	±0.25%	 Digital solid-state,volts-per-hertz voltage regulator with ±0.25% no load to full load
One step load acceptance	100%	regulation
Unbalanced load capability	100% rated standby current	

Application Data

Engine

Engine specifications	50Hz
Engine manufacturer	MHI
Engine model	S12R-PTA-3
Engine turbo	Turbocharged
Cylinder arrangement	12V
Displacement, L	49.03
Bore and stroke, mm	170 x 185
Compression ratio	15:1
Piston speed, m/min	540
Rated rpm	1500
Max.power at rated rpm kWm	1220
Cylinder head material	Cast Iron
Crankshaft material	Forged Steel
Governor type	Woodward
Frequency regulation	Isochronous
Frequency regulation (steady state)	±0.25%
Frequency	Fixed
Air cleaner type	Dry

Exhaust	
Exhaust system	50Hz
Exhaust flow at prime power, m^3/min	242
Exhaust temperature °C	526
Max.allowable back pressure mmH_2O	600
Exhaust outlet size mm (in.)	See drawing
Engine Electrical	
Engine Electrical system	50Hz
Battery charging alternator	
Grounding	Negative
Voltage	24V DC
Ampere rating	30A
Starter motor rated voltage	Dual, 24V DC
Battery, recommended cold cranking amps (CCA)	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	430
Max, fuel pump restriction, kPa	10
Fuel filter: quantity, type	4, secondary

Lubrication

Lubrication system	50Hz
Туре	Full pressure
Oil pan capacity, L	150
Oil pan capacity with filter, L	180
Oil filter: quantity, type	4, Cartridge
Oil cooler	Water-cooled
Cooling	
Radiator system	50Hz
Ambient temperature °C	40
Coolant capacity (engine only) L	125
Coolant capacity (engine and radiator) L	260
Engine jacket water flow, Lpm	1650
Fan loss kW	47
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 .	1776.8
Combustion air, m3/min	101
Heat rejected to ambient air	
Engine, kW (Btu/min.)	88 (5014)
Alternator, kW (Btu/min.)	64 (3640)
Air Density 1.20 kg/m3 (0.075 lbm/ft3).	
Fuel Consumption	50Hz
Diesel L/h	Standby
100% load	282
75% load	213
50% load	148
25% load	84
Diesel L/h	Prime
100% load	257
75% load	196
50% load	138
25% load	81



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

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