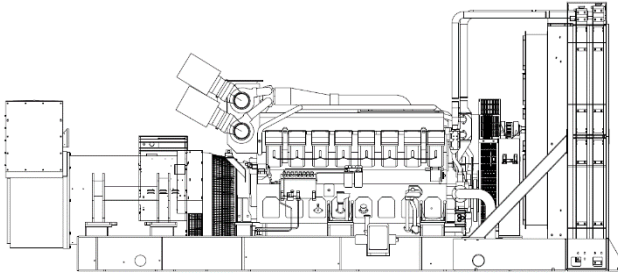




Rating – 50Hz

DCP	kW	2000
	kVA	2500



Standard Features:

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

Generator Rating

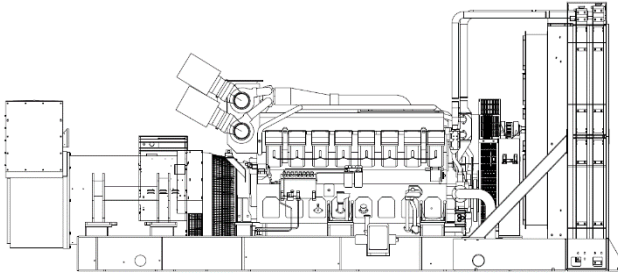
Alternator	Voltage	Ph	Hz	kW	150°C Rise DCP Rating	
					kVA	Amps
LSA52.3 L9	220/380	3	50	2000	2500	3798
	230/400	3	50	2000	2500	3609
	240/416	3	50	2000	2500	3478

RATINGS: All three-phase units are rated at 0.8 power factor. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. DCP: Data center power is defined as being the maximum power which a generating set is capable of delivering while supplying a variable or continuous electrical load and during unlimited run hours. Depending on the sites to supply and the availability of reliable utility, the generating set manufacturer is responsible to define what power level is able to supply to fulfil that requirement including hardware or software or maintenance plan adaptation. Obtain technical information bulletin (TIB-101) for rating guidelines and complete ratings definitions. GENERAL GUIDELINES FOR DERATION : Altitude: Derate 5.0 % per 500 m (1640 ft) elevation above 1000 m(3280 ft) up to maximum altitude of 4000 m (13120 ft). Temperature: Derate 6.0 % per 10°C (18°F) temperature above 40°C (104°F) up to maximum temperature of 60° C (140° F). This document is not contractual - Kohler Co. reserves the right to modify any of the characteristics without notice, in a constant effort to improve the quality of its products.



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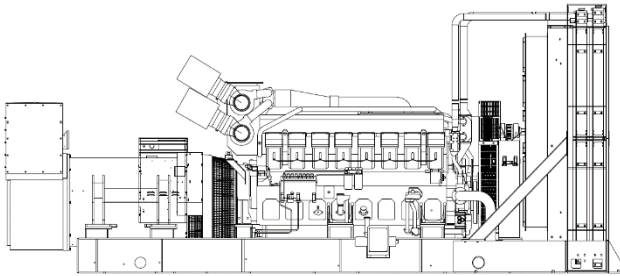
Alternator	Voltage	Ph	Hz	kW	150°C Rise DCP Rating	
					kVA	Amps
	220/380	3	50	2000	2500	3798
LSA52.3 L12	230/400	3	50	2000	2500	3609
	240/416	3	50	2000	2500	3478

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Alternator	Voltage	Ph	Hz	kW	150°C Rise DCP Rating	
					kVA	Amps
LSA52.3 UL16	220/380	3	50	2000	2500	3798
	230/400	3	50	2000	2500	3609
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Alternator Specification

Specification	Generator	
Type	4 pole rotating field	<ul style="list-style-type: none"> • NMEA 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 $\pm 0.25\%$ no load to full load regulation
Rating	2500 kVA / 2000 kW	
Exciter Type	AREP	
Voltage regulator	Solid State	
Insulation	NEMA MG1	
Material	Class H	
Temperature rise	150 °C DCP	
Bearing: quantity, type	1,sealed	
Coupling	Flexible Disc	
Amortisseur windings	Full	
Voltage regulation (no load to full load)	$\pm 0.25\%$	
Efficiency Power factor - Lagging: 0,8 (full load)	96.11%	

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Application Data

Engine		Exhaust	
Engine Specification	50Hz	Exhaust system	50Hz
Engine Manufacturer	MHI	Exhaust flow at DCP, m^3/min	498
Engine Model	S16R2-PTAW	Exhaust temperature °C	508
Engine Type	Turbo Charged	Max. allowable back pressure(mmH^2O)	600
Cylinder	16V	Exhaust outlet size mm (in.)	See ADV
Displacement, L	79.9		
Bore and Stroke mm	170 x 220		
Compression Ratio	14.0:1		
Piston Speed m/min	660		
Rated Speed	1500		
Max Speed kWm	2167		
Governor type	Woodward		
Frequency regulation	±0.25%		

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Application Data

Lubrication

Lubrication system

Oil pan capacity L	260
Oil capacity with filter L	290
Min oil pressure(bar)	2~3
Max oil pressure(bar)	4~6

Cooling

Coolant capacity (engine only) L	190
Coolant capacity (engine and radiator) L	450
Fan loss kW	78
Max.restriction of cooling air, intake and discharge side of radiator, kPa	0.125
Radiator cooling air flow m^3/min	2640

Fuel Consumption

Diesel L/h

100% load	542
75% load	399
50% load	268
25% load	146

Operation requirements

Air requirements

Radiator cooled cooling air, m3/min	2640
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).	

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
- 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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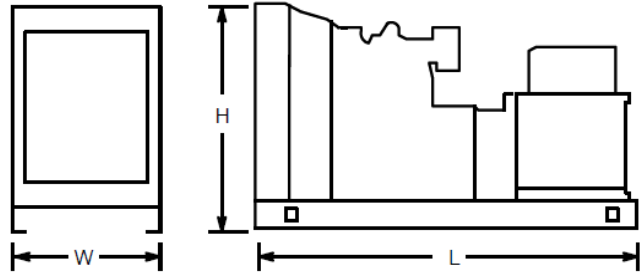
Standard Configuration

- Diesel engine
- Mechanical cooling system
- IP23 alternator:
 - R449
 - AREP
- APM403 Controller (with battery charger)
- Fuel Hose
- Air filter indicator

Option

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

Dimension and weight



L x W x H (mm): 6188 x 2244 x 2896

Dry Weight (kg): 15946

Wet Weight (kg): 16696

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