KOHLER_®

Model:KH275

220 – 415V Diesel

9001 KOHLER POWER SYSTEMS NATIONALLY REGISTERED

Rating Range

		KH275	
		50Hz	
Standby	kW	220	
	kVA	275	
Prime	kW	200	
	kVA	250	



Standard Feature:

- KOHLER Co., provides one-source responsibility for the generating system and accessories
- The generator set and it's components are prototypetested, factory-built and production-tested
- One-year standard warranty covers all systems and components
- Doosan engine with 28.5 volt battery charging alternator
- Meccalte single bearing alternator class H insulation system
- Unit-mounted radiator with 40°C (104°F) ambient air capability
- Skid and vibration isolators
- Dry type air filter
- Main circuit breaker
- Microprocessor controller
- Battery, battery rack and cables
- Operation and installation manual



Generator Rating

				Stand	lby	Prim	ne
Alternator	v	Phs	Hz	kW/kVA	Amps	kW/kVA	Amps
	220/380	3	50	220/275	418	200/250	380
ECO38 1L4A	230/400	3	50	220/275	397	200/250	361
	240/415	3	50	220/275	383	200/250	348

Alternator Specification

- IEC60034, NEMA MG1.22, ISO8528, CSA, UL, ISO9001,ISO14001, CE standard
- IP23
- Class H Insulation
- 2/3 winding pitch

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Specification	50Hz
Voltage	400V
Standby (27°C),kVA	275
Prime (40°C), kVA	250
Efficiency (full load)	93.4%
Air Flow, m^3/min	32
Direct-axis (X"d), %	7.45
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Specification	Alternator
Manufacturer	MECC ALTE
Туре	4 Pole Rotating
Leads	12 Leads
Voltage regulator	DSR
Insulation:	NEMA MG1
Material	Class H
Coupling	Single Bearing
Voltage regulation	±1%

Specification

Engine		Engine Electrical	
Engine Specification		Engine Electrical	
Manufacturer	Doosan/Hyundai	Battery Charging	28.5V
Engine Model	P126TI	Ground/Negative	Negative
Engine Type	4cycle,Turbocharge	Voltage (DC)	28.5
Cylinder arrangement	6 inline	Starter motor rated voltage (DC)	24
Displacement, L (in^3)	11.05 (674)	Battery, recommended Ampere	
Bore and Stoke, mm (in)	123 x 155 (4.8 x 6.1)	Hour (CCA)	
Compression ratio	17.1:1	QTY, CCA	2,170
Piston speed, m/min (ft/min)	465 (1526)	Battery Voltage (DC)	12
Rated speed (r/min)	1500		
Max, power at rated rpm, kW (BHP)	272 (365)	Fuel	
Governor Type	Electronic	Fuel System	
Frequency Regulation	±0.5%	Max. Fuel Flow, Lph (gph)	230 (60.8)
Air Cleaner Type	Dry	Fuel prime pump	Manual
		Fuel Type	Diesel
Exhaust		Fuel Tank Capacity, L (gal)	470 (124.2)
Exhaust System		_	
Exhaust manifold type	Dry	Lubrication	
Exhaust Flow, m^3/min (cfm)	49.7 (1754)	Lubrication System	
Exhaust Temperature, °C (°F)	593 (1099)	Туре	Full Pressure
Max allowable back pressure, kPa (in	5.9 (1.74)	Oil pan capacity with filter, L (qt)	20 (21.1)
Hg)		Oil pan capacity with initial fill,L(qt)	23 (24.3)

Specification

Cooling

Radiator System	
Radiator Ambient Temperature, °C (°F)	40 (104)
Radiator system capacity , L (gal)	51 (13.5)
Heat rejected to cooling water at rated, kW	101.4
(Btu/min)	(5767)
Water pump type	Centrifugal
Fan loss, kW (HP)	7 (9.4)
Max, restriction of cooling air, intake and	
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discharge of radiator, kPA (in H_2O)

Air requirement

Radiator-cooled cooling air m^3/min (scfm)	370 (13056)
Combustion air, m^3/min (ft^3/min)	21.1 (745)
Air density =1.20 kg/m^3 (0.075 lb/ft^3)	

Fuel Consumption

Diesel, L/h (gal/h), load%	Standby
100%	66.2 (17.5)
Diesel, L/h (gal/h), load%	Prime
100%	58.1 (15.3)
75%	43.6 (11.5)
50%	30.0 (7.9)

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.
- 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.
- 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

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Option

Canopy

 Canopy M228, 50Hz, 69.9 dB(A)@7m (23ft) standby (critical muffler)

Standard

- Critical muffler, 40dB(A)
- Hospital muffler, 29dB(A)
- Connector, 40cm (16in)
- Bellow
- Protection Guard

Cooling system

- Block heater (recommend to use when below 0°C (32°F)
- Radiator core guard

Fuel system

- Automatic fuel tank fil kit
- Fuel tank with secondary containment basin
- Subbase fuel tank leak alarm
- Water separator fuel filter

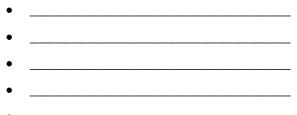
Electrical System

- Battery charger, equalize/float type
- Battery isolator switch

Engine and alternator

- Alternator strip heater
- Air cleaner, heavy duty (with air restriction indicator)
- Droop kit with 3-function voltage regulator
- Electronic governor
- Lube oil drain pump
- PMG alternator and voltage regulator
- Tropical heavy-duty alternator insulation

Others



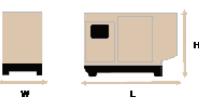
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- Dimension and weight

Open Model



Dimension, LxWxH mm: 3160 x 1340 x 1713.5 Dry weight, kg: 2394 Wet weight, kg: 2864

Canopy



Dimension, LxWxH mm: 4475 x 1410 x 2430 Dry weight, kg: 3539 Wet weight, kg: 4009