



220 - 415V Diesel



Rating Range

		KH630
		50Hz
Standby	kW	508
	kVA	634
Prime	kW	461
	kVA	577



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 27.5 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	٧	Phs	Hz	kW/kVA	Amps	kW/kVA	Amps
	220/380	3	50	508/634	965	461/577	876
ECO40	230/400	3	50	508/634	917	461/577	832
1.5L4B	240/415	3	50	508/634	883	461/577	802



Alternator Specification

IFO	COOO4 NENA MO4 O	2 1000500 004 111	'
 IEC60034, NEMA MG1.22, ISO8528, CSA, UL, ISO9001,ISO14001, CE standard 			Specifica
• IP23	•		Manufac
• Clas	ss H Insulation		Туре
• 2/3 ·	winding pitch		Leads
Specifi	cation	50Hz	Voltage i
Voltage	9	400V	Insulation
Standb	oy (27°C),kVA	675	Material

625

95%

54

10.6

Prime (40°C), kVA

Air Flow, m^3/min

Efficiency (full load)

Direct-axis (X"d), %

Specification	Alternator
Manufacturer	MECC ALTE
Type	4 Pole Rotating
Leads	12 Leads
Voltage regulator	DER-1
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	27.5V
Engine Model	DP180LA	Ground/Negative	Negative
Engine Type	4cycle, Turbocharge	Voltage (DC)	27.5
Cylinder arrangement	10V	Starter motor rated voltage (DC)	24
Displacement, L (in3)	18.27 (1115)	Battery, recommended Ampere	
Bore and Stoke, mm (in)	128 x 142 (5.0 x 5.6)	Hour (CCA)	
Compression ratio	15:1	QTY, CCA	2,170
Piston speed, m/min (ft/min)	426 (1398)	Battery Voltage (DC)	12
Rated speed (r/min)	1500		
Max, power at rated rpm, kW (BHP)	552 (1398)	Fuel	
Governor Type	Electronic	Fuel System	
Frequency Regulation	±0.5%	Max. Fuel Flow, Lph (gph)	630 (166.4)
Air Cleaner Type	Dry	Fuel prime pump	Manual
		Fuel Type	Diesel
Exhaust		Fuel Tank Capacity, L (gal)	610 (161)
Exhaust System		_	
Exhaust manifold type	Dry	Lubrication	
Exhaust Flow, m^3/min (cfm)	106 (3743)	Lubrication System	
Exhaust Temperature, °C (°F)	562 (1044)	Туре	Full Pressure
Max allowable back pressure, kPa (in Hg)	5.9 (1.74)	Oil pan capacity with filter, L (qt)	34 (35.9)

Specification

Cooling

Radiator System	
Radiator Ambient Temperature, °C (°F)	40 (104)
Radiator system capacity , L (gal)	91 (24.04)
Heat rejected to cooling water at rated, kW (Btu/min)	243 (13815)
Water pump type	Centrifugal
Fan loss, kW (HP)	16 (21.4)
Max,restriction of cooling air, intake and discharge of radiator, kPA (in H_2O)	-

Air requirement	
Radiator-cooled cooling air m^3/min (scfm)	700 (24720)
Combustion air, m^3/min (ft^3/min)	33.2 (1172)
Air density =1.20 $kg/m^3 (0.075 lb/ft^3)$	

Fuel Consumption	
Diesel, L/h (gal/h), load%	Standby
100%	135.4 (35.8)
Diesel, L/h (gal/h), load%	Prime
100%	123.6 (32.7)
75%	94.2 (24.9)
50%	64.8 (17.1)

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
- 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 M230, 50Hz, 70.7 dB(A)@7m (23ft) standby

Standard

- 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

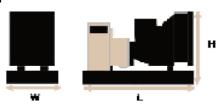
- Alternator strip heater
- Air cleaner, heavy duty (with air restriction indicator)
- Droop kit with 3-function voltage regulator
- Electronic governor
- Lube oil drain pump
- PMG alternator and voltage regulator
- Tropical heavy-duty alternator insulation

Others

- _____
- _____
- •
- •
- _____
- •

Dimension and weight

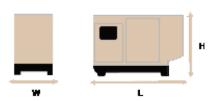
Open Model



Dimension, LxWxH mm: 3470 x 1630 x 2020

Dry Weight, kg: 3837 Wet weight, kg: 4447

Canopy



Dimension, LxWxH mm: 5031 x 1690 x 2662

Dry Weight, kg: 5148 Wet weight, kg: 5812