CMQD 12,000 GenSet

Diesel 12 kW 60 Hz



Commercial GenSet

- Dramatically Lower Noise, Vibration, Harshness (NVH)
 - Significantly Quieter Than Conventional Diesel Generators
 - Enclosed Muffler for Added Quietness, Easy Installation
 - Automatic Glow Plug Eliminates Preheat Time Uncertainty
 - Convenient, Top-Mounted Switches and Coolant Level Check/Fills
 - Service and Maintenance Points Accessible Through Easy-Latch Side Service Door
 - Self-Diagnostic Capability Simplifies Troubleshooting
 - Complete, Integrated Package for Easy, Low-Cost Installation

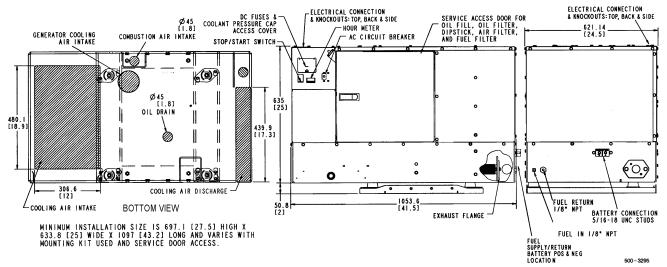
Models and Ratings

Ratings	Model 12.0 HDCAD-2209A All 60 Hz models ope Ratings apply to altit Derating: Power outp	udes up to 500) ft (153		· · ·				
Weight, Size and Sound Level	for each 10° F (5.5° c	C) increase in a t	ambien 6 mm	t tempera), Width	ature above n 24.5 in (85° F (29)	° C).	,	27 in (685.8 mm)
			40			S	anta I	,	Drive CA 95405 539-9003

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Standard Features	 3 cylinder diesel engine Brush type AC alternator Digital voltage regulation with no adjustments required Bottom air inlet and outlet configuration Integral enclosed muffler with stationary exhaust pipe connection point USDA approved spark arrestor Internal radiator Sound insulated cover with cooling air inlet and outlet ducts Intake silencer Heavy duty air cleaner Maintenance free electronic governor Fused DC circuits Regulated-voltage 20 A battery charging Hourmeter 	 Waterproof connector for remote operation Focalized mounting system with 3-point vibration isolation Overvoltage, low oil pressure, overtemp, overspeed and overload safeties Bulkhead type connections for fuel and battery Terminal block connection for AC output Electric fuel pump Fuel filter Full flow oil filter Service and maintenance from below or side service access panel Automatic timed glow plugs for quick easy start Instant one touch stop Sealed circuit breaker
Accessories	 Exhaust elbow, 90° (part #155-3194) Exhaust adapter, 3-inch (part #155-2610), 7-inch (part #155-2424) Remote control pigtail (part #300-4947) Remote control harness pigtail at panel (part #338-3573) Remote control panel, switch only (part #300-4942) Remote conrol panel, switch and hourmeter (part #300-4943) Remote control panel, switch and DC voltmeter (part #300-4944) 	 Remote gauge panel, switch, DC voltmeter, water temperature gauge, oil pressure switch and hourmeter (part #300-5218 Spec A, 300-5027 Spec B and later) Battery 12 V, 660 cold cranking amps at 0° F (-17.8° C) (wet) (part #416-0796) Battery 12 V, 620 cold cranking amps at 0° F (-17.8° C) (dry) (part #416-0823) Remote harness (for use with remote panels), 10 ft (part #338-3490-01), 30 ft (part #338-3490-02) Secondary vibration isolation kit (part #402-0752)

Basic Dimensions



This outline drawing is provided for general reference only is not intend for design or installation. See installation manual and obtain outline drawing number 500-3295 for more information (available from your Distributor/Dealer).

Engine Detail	Model: Isuzu Design: 4-cycle, liquid-cooled diesel engine Cylinders: 3, inline vertical Bore: 3.27 in (83.1 mm) Stroke: 3.62 in (92 mm) Displacement: 91.0 in ³ (1496 cm ³) Compression ratio: 22:1	Cooling system capacit Power (max): at 1800 r/n SAE net intermittent Starting system: Remote Fuel injection pump: Ze Bosch PFR	Starting system: Remote, 12 V Fuel injection pump: Zexel, licensed		
	Typical fuel consumptionNo. 2 diesel fuel, Gal/hr (L/hr)10.0 HDCACNo load 0.11 (0.4)10.0 HDCAC0.62 (2.34)	<u>Full load</u> 1.10 (4.16)			
Alternator Detail	Design: Onan, brush type, drip-proo construction Insulation system: Class F per NEN MGI-1.65 and BS 2757	regulator	prelubricated		
GenSet Detail	N Voltage regulation: Frequency regulation:	±1%	±1% ±0.5%		
	 Control Microprocessor control Integrated generator and engine control User and service personnel accessible diagnostics Fused DC circuits 	 Overvoltage safety Low oil pressure safet Overspeed safety Overload safety Automatic times glow One-touch stop 			



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Warranty Policy	The ONAN limited warranty covers virtually everything except routine maintenance for the first two years you own your generator set, or the first 2,000 hours of operation, whichever comes first. In addition, it includes a free 90-day adjustment policy, which provides that Onan will make minor adjustments to your new genset during the first three months you own it - free of charge! For complete Onan limited warranty details see your certified Onan Distributor/Dealer.			
After Sale Support	EASY TO LOCATE CERTIFIED ONAN SERVICE AND PARTS DEALERS - Onan has the largest and best-trained worldwide certified Distributor/Dealer network in the industry, offering on-time parts and service, and installation assistance. Cummins Onan Distributor/Dealers stock and sell commonly used Onan GenSet maintenance parts, accessories and products, plus operator manuals and literature on current Onan GenSets. They can help you select and install the right genset or accessories on older models, or provide answers to questions on proper operation and maintenance procedures.			
	MANUALS - Installation and operators manuals are shipped with the genset. To obtain additional copies or other manuals for this model, see your Cummins Onan Distributor/Dealer and request the following part numbers: Operators Manual (981-0165), Parts Manual (981-0259), Service Manual (981-0526), and Installation Manual (981-0632).			
Standards and Testing	Tested at extremes of temperature -20° F to 120° F for starting and operation. Tested installed. Tested with commercial loads. Tested in high humidity conditions. Tested in salt spray conditions. Tested in heavy air borne dust conditions. Tested in heavy air borne dust conditions. Field Test Program. This product meets U.S. EPA Tier II. This generator set was designed and manufactured in facilities certified to ISO 9001. CSA Certified for CSA C22.2 std 100 and std 14. Image: Construct the set of this generation. This generator set was designed and manufactured in a std tube. Image: Construct the set of this generation. This generator set was designed and manufactured in the set of the			

Contact your Distributor/Dealer for more information



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WARNING: Backfeed to utility systems can cause electrocution or property damage. Do not connect to building electrical except through approved device and after building main breaker is opened.