5.2 MW 2010 New Caterpillar C280-16 Diesel Generator Sets



Harnessing Energy for Life



Description & Additional Notes

EXCLUSIVELY FROM USP&E!

USP&E is selling: 5.2 MW 2010 New Caterpillar C280-16 Diesel Generator Sets 50hz; 1000RPM;

Units available: 6x

**Note that price is per unit Images may be representative, and actuals can be supplied upon request.

If you are like us, you read every day about how thousands of fast growth companies struggle to find energy generation that is affordable, reliable and available for immediate shipping and installation on a turnkey basis from a company that really understands the complexities of integration of balance of plant and other site infrastructure.

At USP&E, we have been in business now for over 20 years and have offices in 9 countries. But more importantly, WE ARE OBSESSED WITH EACH CLIENTS JOURNEY TO ENERGY SUSTAINABILITY & RELIABILITY AND ARE DRIVEN TO GUIDE EACH CLIENT TO SUCCESSFUL INTEGRATION OF THE BEST IN CLASS TECHNOLOGIES.

This is important and a huge differentiating factor for our clients because USP&E isn't the hero of our story, you are. We will do everything possible to make sure you are successful, and we have over 20 years of satisfied clients and meaningful, long-term client engagements that prove this out. The potential delays related to permitting, land access, shipping, etc must be dealt with head-on and with urgency. We have helped hundreds of companies like yours for over 20 years.



Description & Additional Notes

The process is really simple:

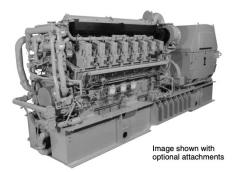
- 1. Quick, 30 min Engineering/Design Meeting so we Can understand Your project goals, timelines and budgets.
- 2. Scope of work and supply to match our plants to what you need.
- 3. Work together to finalise commercial and technical aspects into a contract and move forward with the project. ✓

Please remember, USP&E is not just an equipment broker. We are a GUIDE to energy project excellence. We offer full Engineering, Procurement, Construction and long-term O&M in over 190 countries around the world in order to make sure our client projects are a RESOUNDING success. Some of the companies we are currently working with include the City of Neom, Barrick Gold, SPACE-X, Firefinch Gold, Kurdistan MOE, Ivanhoe Mining, Boogertman Partners, and Molo Graphite.

At USP&E, we understand how most companies struggle to find energy generation that is affordable, reliable and available for immediate shipping and installation on a turnkey basis. Your partner must be a company that really understands the complexities of integration of balance of plant and other site infrastructure, and not just be a broker. Ideally, your partner offers complete O&M and warranty support services. This is what we have been doing for over 20 years.



Description & Additional Notes



CAT® GENERATOR SET SPECIFICATIONS

V-16, 4-Stroke-Cycle-Diesel

Emissions IMO Tier II/EPA Marine Tier 2
Bore
Stroke 300 mm (11.8 in)
Displacement
AspirationTurbocharged-Aftercooled
Fuel System EUI
Engine Control Dual ADEM™ A4
Generator Set Control Cat® Alarm and Protection System
Refill Capacity
Cooling System 1003 L (265 U.S. gal)
Lube Oil System

FEATURES

Product Design

- Cat C280 engines are type approved by the following marine classification docieties:
- American Bureau of Shipping
- Bureau Veritas
- China Classification Society
- Det Norske Veritas
- Germanisher Lloyd
- Lloyd's Register of Shipping
- IMO Tier II emissions certification, GL and CCS approved
- Cat alarm and protection system provides redundancy and the latest technology in generator set control, protection, and operator interface; type approved by the following marine classification societies:
- American Bureau of Shipping
- Bureau Veritas
- China Classification Society
- Det Norske Veritas
- Germanisher Lloyd
- Lloyd's Register of Shipping
- Russian Maritime Register of Shipping

Simplified Packaging Concept

- Single-point AC and DC connection points at distribution panel
- Ready-to-run package, includes most ancillary equipment
- Single lift handling
- Few shipped-loose parts simplify handling at installation
- Caterpillar warranty covers all factory package components worldwide

Custom Packaging

For any petroleum application, trust Caterpillar to meet your project needs with custom factory generator sets and mechanical packages. Cat engines, generators, controls, radiators, and transmissions can be custom designed and matched in collaboration with our local dealers to create unique solutions. Custom packages are globally supported and are covered by a one-year warranty after startup.

Full Range of Attachments

Large variety of factory-installed engine attachments increases application flexibility and reduces installation time.

Testing

- Every unit is full-load tested to ensure proper package performance
- Full range of factory tests and reports are available including performance, torsional-vibration analysis, fuel consumption, engine, and generator special tests

Product Support Offered Through Global Cat Dealer Network

More than 2,200 dealer outlets

Caterpillar factory-trained dealer technicians service every aspect of your Cat engine

Caterpillar parts and labor warranty

Preventive maintenance agreements available for repairbefore-failure options

S•O•SSM program matches your oil and coolant samples against Caterpillar set standards to determine:

- Internal engine component condition
- Presence of unwanted fluids and combustion by-products
- Site-specific oil change interval

Over 80 Years of Engine Manufacturing Experience

- C280 engines incorporate over 20 years of proven component reliability and durability from 3600 engines
- Large field population in offshore applications provides proven performance, reliability, durability, and established worldwide product support network

Web Sit

For all your petroleum power requirements, visit www.catoilandgasinfo.com



Description & Additional Notes

CONFIGURATION

Product Consist

The engine is a turbocharged, aftercooled, four-stroke-cycle-diesel cycle, electronic unit injection engine with a 280 mm (11 in) bore by 300 mm (11.8 in) stroke. SAE standard rotation is counterclockwise as viewed from the rear of engine flywheel.

Air Inlet System

Fresh water aftercooler, corrosion resistant coated (air side); air inlet shutoff; crankcase breathers, top-mounted; turbochargers (2), rear-mounted, oil lubricated

Control System

Dual Cat ADEM A4 electronic engine control module with electronic unit injector fuel system, rigid wiring harness (10 amp 24V power required to drive electronic engine control modules)

Cooling System

Gear-driven jacket water (JW) pump, gear-driven separate-circuit aftercooler/oil cooler (AC/OC) pump, LH-mounted water connections: JW and AC/OC, 6" ANSI

Exhaust System

Dry, gas tight exhaust manifold; dual turbocharger, rear-mounted; dual wastegate

Fuel System

Distillate fuel (requires viscosity ranging from 1.4 cSt to 20 cSt at 38°C); fuel pump, gear driven; fuel transfer pump (mounted on left-hand side); duplex fuel filters, rear-engine-mounted; electronically controlled unit injectors

Lube System

Centrifugal oil filters and lines with single shutoff – LH mounted on cylinder block inspection covers, serviceable with the engine running; oil pump, gear-driven; oil filler and dipstick – located in base integrated tank; oil pressure regulating valve; crankcase explosion relief valves; duplex oil filter – engine-mounted; oil cooler – engine-mounted

Instrumentation

Cat Alarm and Protection System Features:

- 145 mm (5.7") color monitor to display all engine parameters and alarm annunciation, alarms annunciated with a time and date stamp
- Annunciation of all engine shutdowns, alarms, and status points
- Start/prelube control switch and emergency stop button
- Selection of local/remote control of engine
- Customer connections at terminal blocks inside panel
- Equipped for remote communication MODBUS RS485 and MODBUS TCP
- Two configurable relay outputs
- All engine sensors are monitored by the ECU or the Cat Alarm and Protection System
- The panel can display all engine parameters

Starting System

TDI dual air starting motors, LH rear; shutoff valve; two integrated relay valves with built-in screen #40 mesh and solenoid; air pressure sensor, monitored by Cat Alarm and Protection System — requires customer wiring; maximum operating (dynamic) pressure: 10 bar (150 psi); maximum static pressure: 14 bar (200 psi) 3-inch ANSI flange customer connection; requires customer-provided 3-inch supply air line from receiver or regulator to air starter and flex connection; if regulator is used, Cv of 40 or greater is required



Description & Additional Notes

ATTACHMENTS

Emission Certification

GL and CCS approved IMO certificate — includes statement of compliance or Engine International Air Pollution Prevention (EIAPP) certificate, supplied by the Recognized Organization (RO) where available, and technical file to be kept on board per IMO regulations.

Marine Society Certifications

Societies currently granting approval to C280 engines are: ABS, BV, CCS, DnV, GL, LRS

Marine Society Requirements

Spray shielding to meet SOLAS regulations for flammable fluids

European Certifications

Declaration of Incorporation for EU Machinery Safety Directive and EU Low Voltage Safety Directive

Air Inlet System

90° adapter and straight adapters for air inlet to turbocharger

Air cleaners

Air cleaners with Cat dry paper filter elements (approximately 99.9% efficient at filtering SAE fine dust)

*Soot filter

*Air cleaner support bracket

Cooling System

Jacket Water Thermostat Options:

- 90°C thermostat, direct connection to expansion tank
- 90°C thermostat, for remote mounting
- 90°C thermostat, fully automatic 3-way with manual override
- Customer-provided thermostat

AC/OC Thermostat Options:

- 32°C thermostat, remote mounted
- 32°C thermostat, fully automatic, 3-way with manual override
- Customer-provided thermostat

Expansion Tank Options:

- Remote-mounted expansion tank
- Accessory-module-mounted expansion tank
- *Jacket water heaters
- *ANSI connection adapters

Exhaust System

Exhaust manifold shields

- *Flexible exhaust fittings
- *Weld flanges

Fuel System

- *Manual fuel priming pump
- *Duplex primary fuel strainer

Lube System

Wet or dry oil sump

Redundant prelube with continuous electric prelube

Intermittent air prelube backup

Electric continuous prelube pump

- * Lube oil heater
- * Front or rear oil drain connections

Protection System

Flywheel and damper guards

*Cylinder pressure relief valve

*Spray shielding

*Oil mist detector

Starting System

Pressure reducing valve

Mounting System

Design-to-Order (DTO) Base

*Vertically-restrained vibration isolators and weld plates

General

Generator panel

Torsional coupling

Engine barring device options:

- Manual 50:1
- Electric 400V
- Electric 480V
- *Accessory module Front-mounted for mounting expansion tank, heat exchanger, instrument panel, annunciator panel, alarm and shutdown contactors, and fuel strainer
- *Engine testing full-load tested, fuel consumption test, rated speed performance test, overload test, minimum power setting, peak firing pressure test, turbo work certificates, crankshaft work certificates, standard and project-specific witness testing
- *Spare parts kit
- *Engine lifting eyes

Literature

- *Project-specific installation drawings
- *Electrical schematics and P&ID drawings



Description & Additional Notes

DIESEL ENGINE TECHNICAL DATA

C280-16 Engine — 5420 bkW (1000 rpm)

COMPRESSION RÀTÍO: 1: AFTERCOOLER WATER (°C): 3: JACKET WATER INLET (°C): 99 IGNITION SYSTEM: E EXHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 1: RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY		NOTES (2) (2)	CERTIFICATION TURBOCHARG FUEL TYPE: RATED ALTITU ASSUMED GEN ASSUMED GEN MEAN PISTON LOAD bkW ekW	ER PART #: DE @ 25°C (i IERATOR EF IERATOR PC	FÍCIENCY (% WER FACTO : 100%	s):	284-8277 Distillate 150 96 0.8 10
COMPRESSION PÀTÍO: 1: AFTERCOOLER WATER (°C): 3: JACKET WATER INLET (°C): 99 IGNITION SYSTEM: E EXHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 1: RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	3:1 2 0 UI RY 7300	(2)	FUEL TYPE: RATED ALTITU ASSUMED GEN ASSUMED GEN MEAN PISTON LOAD bkW	DE @ 25°C (i IERATOR EF IERATOR PC SPEED (m/s)	FÍCIENCY (% WER FACTO : 100%	PR:	Distillate 150 96 0.8 10
AFTERCOOLER WATER (°C): 3: JACKET WATER INLET (°C): 9! IGNITION SYSTEM: E EXHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 1: RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	2 0 UII RY 7300	(2)	RATED ALTITU ASSUMED GEN ASSUMED GEN MEAN PISTON LOAD	IERATOR EF IERATOR PO SPEED (m/s)	FÍCIENCY (% WER FACTO : 100%	PR:	150 96 0.8 10
JACKET WATER INLET (°C): IGNITION SYSTEM: ENHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 11 RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	O UI RY 7300	(2)	ASSUMED GEN ASSUMED GEN MEAN PISTON LOAD bkW	IERATOR EF IERATOR PO SPEED (m/s)	FÍCIENCY (% WER FACTO : 100%	PR:	96 0.8 10
IGNITION SYSTEM: E EXHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 1 RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	UI RY 7300	(2)	ASSUMED GEN MEAN PISTON LOAD bkW	IERATOR PO SPEED (m/s)	WER FACTO	PR:	0.8 10
EXHAUST MANIFOLD: D FIRING PRESSURE, MAXIMUM (kPa) 1: RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	RY 7300	(2)	MEAN PISTON LOAD bkW	SPEED (m/s)	100%		10
FIRING PRESSURE, MAXIMUM (kPa) 1' RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	7300	(2)	LOAD	110%	100%	75%	
RATING ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY		(2)	bkW			75%	50%
ENGINE POWER GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	(ISO 3046/1)	(2)	bkW			75%	50%
GENERATOR POWER BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	(ISO 3046/1)			5962			
BMEP ENGINE EFFICIENCY ENGINE EFFICIENCY	(ISO 3046/1)	(2)	-134/		5420	4065	2710
ENGINE EFFICIENCY ENGINE EFFICIENCY	(ISO 3046/1)			5720	5200	3900	2600
ENGINE EFFICIENCY	(ISO 3046/1)		kPa	2421	2201	1651	1101
		(1)	%	44.3%	43.7%	41.6%	39.4%
	(NOMINAL)	(1)	%	43.0%	42.4%	40.3%	38.29
ENGINE DATA							
FUEL CONSUMPTION	(ISO 3046/1)	(1)	g/bkw-hr	191.0	193.6	203.5	214.8
FUEL CONSUMPTION	(NOMINAL)	(1)	g/bkw-hr	194.7	197.3	207.5	219.0
FUEL CONSUMPTION	(90% CONFIDENCE)	(1)	g/bkw-hr	196.8	199.5	210.0	221.7
AIR FLOW (@ 25°C, 101.3 kPaa)			Nm3/min	620.5	566.2	470.2	306.3
AIR MASS FLOW			kg/hr	41530	37895	31472	2049
INLET MANIFOLD PRESSURE			kPa (abs)	405.0	365.3	303.3	198.2
INLET MANIFOLD TEMPERATURE			°C	44.6	44.2	43.3	42.2
EXHAUST STACK TEMPERATURE			°C	356.5	362.5	382.0	444.6
EXHAUST GAS FLOW (@ stack temp, 101.3	kPa)		m3/min	1332.1	1209.0	984.6	641.4
EXHAUST GAS MASS FLOW			kg/hr	42680	38954	32316	2109 ⁻
EMISSIONS "NOT TO EXCEED I			Y				
Nox as NO2 + THC (molecular weight of 13.0	i8)		g/bkW-hr	11.03	11.66	10.47	9.57
Nox as NO2			g/bkW-hr	9.56	10.55	9.46	8.26
CO			g/bkW-hr	0.85	0.79	0.68	1.26
THC (molecular weight of 13.018)			g/bkW-hr g/bkW-hr	1.47 0.31	1.11 0.28	1.01 0.25	1.31 0.39
Particulates			<u>g/bkvv-nr</u>	0.31	0.28	0.25	0.39
EMISSIONS "NOMINAL DAT							
NOx (as NO2) + THC (molecular weight of 13.	018)		g/bkW-hr	9.44	10.03	9.00	8.19
NOx (as NO2)			g/bkW-hr	8.31	9.18	8.22	7.18
CO			g/bkW-hr	0.65	0.61	0.52	0.97
THC (molecular weight of 13.018)			g/bkW-hr	1.13	0.86	0.78	1.01
Particulates			g/bkW-hr	0.22	0.20	0.18	0.28
ENERGY BALANCE DATA							7096
FUEL INPUT ENERGY (LHV)	(NOMINAL)	(1)	KW	13878	12788	10079	
FUEL INPUT ENERGY (LHV) HEAT REJ. TO JACKET WATER	(NOMINAL) (NOMINAL)	(3)	кw	1164	1079	881	687
FUEL INPUT ENERGY (LHV) HEAT REJ. TO JACKET WATER HEAT REJ. TO ATMOSPHERE	(NOMINAL) (NOMINAL) (NOMINAL)	(3)	KW KW	1164 278	1079 256	881 202	687 142
FUEL INPUT ENERGY (LHV) HEAT REJ. TO JACKET WATER HEAT REJ. TO ATMOSPHERE HEAT REJ. TO OIL COOLER	(NOMINAL) (NOMINAL) (NOMINAL) (NOMINAL)	(3) (4) (5)	KW KW KW	1164 278 598	1079 256 569	881 202 503	687 142 437
ENERGY BALANCE DATA FUEL INPUT ENERGY (LHV) HEAT REJ. TO JACKET WATER HEAT REJ. TO ATMOSPHERE HEAT REJ. TO OIL COOLER HEAT REJ. TO EXH. (LHV to 25°C) HEAT REJ. TO EXH. (LHV to 177°C)	(NOMINAL) (NOMINAL) (NOMINAL)	(3)	KW KW	1164 278	1079 256	881 202	687 142

- 7) TOTAL AFTERCOOLER HEAT = AFTERCOOLER HEAT x ACHRF (heat rate based on treated water)
- 8) FUEL CONSUMPTION DATA IS WITHOUT SEA WATER PUMP.



Description & Additional Notes

DIESEL ENGINE TECHNICAL DATA

C280-16 Engine — 5420 bkW (1000 rpm)

	AL	TITUDE D	ERATIO	N FACTO										
	50	0.94	0.91	0.88	0.86	0.83	0.81	0.78	0.76	0.74	0.71	0.69	0.67	0.65
	45	0.95	0.93	0.90	0.87	0.85	0.82	0.80	0.77	0.75	0.73	0.70	0.68	0.66
AIR	40	0.97	0.94	0.91	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.71	0.69	0.67
TO	35	0.98	0.96	0.93	0.90	0.87	0.85	0.82	0.80	0.77	0.75	0.73	0.70	0.68
TURBO	30	1.00	0.97	0.94	0.92	0.89	0.86	0.84	0.81	0.79	0.76	0.74	0.71	0.69
	25	1.00	0.99	0.96	0.93	0.90	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.70
(°C)	20	1.00	1.00	0.98	0.95	0.92	0.89	0.86	0.84	0.81	0.79	0.76	0.74	0.72
	15	1.00	1.00	0.99	0.96	0.93	0.91	0.88	0.85	0.83	0.80	0.78	0.75	0.73
	10	1.00	1.00	1.00	0.98	0.95	0.92	0.89	0.87	0.84	0.82	0.79	0.77	0.74
		0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
ALTITUDE (METERS ABOVE SEA LEVEL)														

	AFTERC	OOLER H	EAT REJ	ECTION										
								0						
	50	1.23	1.27	1.30	1.34	1.38	1.42	1.45	1.49	1.53	1.56	1.60	1.64	1.67
	45	1.18	1.22	1.25	1.29	1.32	1.36	1.39	1.43	1.46	1.50	1.53	1.57	1.61
AIR	40	1.13	1.17	1.20	1.23	1.27	1.30	1.34	1.37	1.40	1.44	1.47	1.50	1.54
то	35	1.08	1.12	1.15	1.18	1.21	1.24	1.28	1.31	1.34	1.37	1.41	1.44	1.47
TURBO	30	1.03	1.06	1.10	1.13	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40
5000	25	1.00	1.01	1.04	1.07	1.10	1.13	1.16	1.19	1.22	1.25	1.28	1.31	1.34
(°C)	20	1.00	1.00	1.00	1.02	1.05	1.07	1.10	1.13	1.16	1.19	1.21	1.24	1.27
	15	1.00	1.00	1.00	1.00	1.00	1.02	1.04	1.07	1.10	1.12	1.15	1.18	1.20
	10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.04	1.06	1.09	1.11	1.14
		0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
ALTITUDE (METERS AROVE SEA LEVEL)														

FREE_FIELD MECHANICAL NOISE										
					SOUND	PRESSU	JRE LEV	EL		
Nox as NO2		dB(A)								
DISTANCE FROM	15M	95	84.7	90.7	90.2	90.8	89.8	87.8	86.5	84.1
THE ENGINE	7M	101	90.2	96.2	95.7	96.3	95.3	93.3	92	89.6
(M)	1M	112	101.2	107.2	106.7	107.3	106.3	104.3	103	100.6
		Overall	63	125	250	500	1000	2000	4000	8000
					Octave E	Band (Hz)			

					SOUND	PRESSU	JRE LEV	EL		
		dB(A)								
DISTANCE FROM	15M	99	110.6	107.6	98.0	94.1	89.2	90.2	88.2	82.4
THE ENGINE	7M	106	117.4	114.9	106.2	100.9	96.9	96.9	95.0	90.2
(M)	1.5M	119	130.9	128.0	118.3	114.4	109.6	110.5	108.6	102.8
		Overall	63	125	250	500	1000	2000	4000	8000
					Octave E	Band (Hz)			
								2000		

This table shows the deration required for various air inlet temperatures and altitudes. Use this information to help determine actual engine power for your site. The total deration factor includes deration due to altitude and ambient temperature, and air inlet manifold temperature deration.

Aftercooler heat rejection is given for standard conditions of 25°C and 150 m altitude. To maintain a constant air inlet manifold temperature, as the air to turbo temperature goes up, so must the heat rejection. As altitude increases, the turbocharger must work harder to overcome the lower atmospheric pressure. This increases the amount of heat that must be removed from the inlet air by the aftercooler. Use the aftercooler heat rejection factor to adjust for ambient and altitude conditions. Multiply this factor by the standard aftercooler heat rejection.

Generator power determined with an assumed generator effeciency of 96% [generator power = engine power x 0.96]. If the actual generator efficiency is less than 96% 8) FUEL CONSUMPTION DATA IS WITHOUT SEA WATER PUMP.

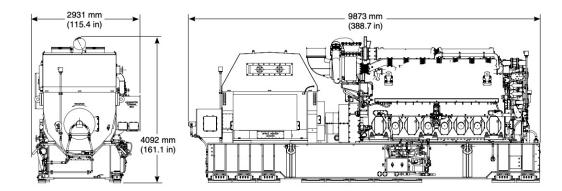
The factor is a percentage = 96% - actual generator efficiency

SOUND DATA: Data determined by methods according to TM7080.



Description & Additional Notes

DIMENSIONS



Dimensions and Weight									
Length	9873 mm (388.7 in)								
Width	2931 mm (115.4 in)								
Height	4092 mm (161.1 in)								
Weight – dry	64 000 kg (141,096 lb)								

Note: Dimensions are dependent on generator and options selected. See general dimension drawings for detail.

Note: Weight includes engine, generator, base, coupling, water/lube oil heater, generator lubrication module, and piping. Weight may vary depending upon individual configuration.

RATING DEFINITIONS AND CONDITIONS

Rating Definition — Maximum Continuous Rating (MCR) following reference conditions according to the International Association of Classification Societies (IACS) for main and auxiliary engines. An overload of 10% is permitted for one hour within 12 hours of operation.

Fuel consumption has a tolerance of +5% and is based on fuel oil of 35° API [16° C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal). Fuel consumption shown with all oil, fuel, and water pumps, engine driven.

Balance of Plant Available? (BOP)



Specifications	
Manufacturer	Caterpillar

Model C280-16

Year 2010

NA

Condition new

United States Location

\$1,725,000.00 Price

Category **Diesel Generators**

Subcategories

• 1 - 9 MW

Stock Number USP010054

5.2 MW

Zero

50hz

Wattage

Diesel

Hours Frequency

Voltage

Fuel type



