

GAS PKG. GEN SET (I)
NEWBERRY, SOUTH CAROLINA

Ship Weight
lbs

List Price
At Factory

Product Consist:

PRICING INFORMATION

These prices are manufacturer suggested resale prices and are subject to change without notice. Shipment will usually be made from source of manufacture, or at factory discretion. Attachment prices are for attachments installed as original equipment unless otherwise specified.

Net price items are subject to no further discounts.
All prices are installed list prices unless otherwise specified.

SHIPMENT DATE SPECIFIC PRICING IS BEST FOUND THROUGH THE CSQ QUOTING TOOLS.

GLOSSARY OF TERMS

For product abbreviations go to Power Net at <https://engines.cat.com>
Under the applications tab, select TMI Web. Once in TMI select Abbreviations, listed under TMI Definitions/Utilities.

DESIGN TO ORDER (DTO)

Orders requiring special engineering (referred to as DTO) will require additional process time. This time is over and above normal order processing or product availability.

Attachments listed in the price list are NOT interchangeable between sales models or applications. If attachments are required for a particular model or configuration but are not listed as compatible for this model in a specific price list, the order will require a DTO. This is true even when the same attachment or configuration has been ordered in the past.

A DTO will require an application and installation (A & I) marketing quote. For further information contact the Application Support Center.

Requests for special ratings not listed in the Price List should also be sent to the Application Support Center. If the special rating is possible, it may also require a DTO and could require additional processing time if the appropriate details have not yet been established.

Please keep this information in mind when discussing or quoting approximate availability to your customers.

DTO quotes are typically valid for six (6) months. If the quote expires, regardless if it has been ordered or not, a new DTO quote will be required before an order can be placed.

DEALER SPECIFIC PRICING TERMS

To obtain the latest specific conditions from Caterpillar to individual Cat dealers please use Engine Order Management Process (EOMP) quoting and order tool like CSQ. For questions or special requests, please contact your Caterpillar representative.

TECHNICAL PERFORMANCE DATA

Technical performance data and Engine rating information is available in Power Net at <https://engines.cat.com>. Under the quick links,

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TECHNICAL PERFORMANCE DATA (CONT.)

select TMI Web. Once in TMI select TMI Performance Definitions.

To request dealer specific authorization, please follow links to Engine Order Management Process (EOMP) at Caterpillar Power Net (<https://engines.cat.com>). CWS logon id is needed to access Power Net.

RATINGS GUIDE

The EPG Ratings Guide may be ordered through Media Logistics by calling + 1 (800) 566-7782 or + 1 (309) 266-0942. The current EPG Ratings Guide media number for Cat Generator Sets is LEXE7582 Generator Sets.

Current EPG ratings are also available by accessing the Electronic Media Center at <https://emc.cat.com> and on Power Net at <https://engines.cat.com>, select Electric Power then select References/Sales Tools.

ENGINE PACKAGE DESCRIPTION

ENGINE
Gas Engine 21.9 L
Electrical system, 24 VDC
Std Air Cleaner (STDAIR)
Electronic Governor
engine contrl w/Speed Adjust thru EMCP

CERTIFICATIONS

NON-EMISSIONS
DG350-1, DG400-1 and DG450-1

EMISSIONS CERTIFIED
DG350-2, DG400-2 and DG450-2
EPA Emissions Certification with Catalyst (EPA)
South Coast Certification with Catalyst (SCAQMD)
UL2200 listing provided by ETL (ULLIST)

CIRCUIT BREAKERS

Mainline Circuit Breaker sized for full load current
80% IEC/UL listed thermal magnetic (STDMLCB)
3-pole with solid neutral
NEMA 1 steel enclosure
Electrical stub-up area directly below circuit breaker

CONTROL PANELS

NEMA 1 enclosure
Wiring loom
DC and Ac wiring harness
EMCP 4.2B controls including (EMCP42B):
std-Run / Auto / Stop Control
std-Speed Adjust
std-Voltage Adjust
std-Engine Cycle Crank
std-Emergency Stop pushbutton
std-Audible Alarm (Local/Remote annunciators)
EMCP 4.2B controller features:

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CONTROL PANELS (CONT.)

- std-24-volt DC operation
- std-Environmental sealed front face
- std-Text alarm/event descriptions
- Digital indication for:
 - std-RPM
 - std-RPM
 - std-DC Volts
 - std-Operating Hours
 - std-Oil Pressure (psi, kPa or bar)
 - std-Coolant Temperature (°C or °F)
 - std-Volts (L-L & L-N), frequency (Hz)
 - std-Amps (per phase & average)
 - std-Power Factor (per phase & average)
 - std-kW (per phase, average & percent)
 - std-kVA (per phase, average & percent)
 - std-kVAr (per phase, average & percent)
 - std-kW-hr (total)
 - std-kVAr-hr (total)
- Warning/shutdown with common LED indication of shutdowns for:
 - std-Low Oil Pressure
 - std-High Coolant temperature shutdown
 - std-Overspeed
 - std-Emergency stop
 - std-Failure to start (overcrank)
 - std-Low Coolant temperature alarm (detects jacket water heater failure)
 - opt-Low Coolant level
 - std-Fuel supply pressure low shutdown
- Programmable protective relaying functions:
 - std-Generator phase sequence
 - std-Over/Under voltage (27/59)
 - std-Over/Under Frequency (81 o/u)
 - std-Overcurrent (50/51)
 - std-Generator Inverse Definite min. time Curve selection
- Communications
 - std-Customer DATA link (RS485 Modbus RTU)
 - opt-Accessory module DATA link
 - std-RS485 Serial DATA link (terminals only)
 - std-8 programmable digital outputs available
 - std-2 relays pre-programmed
 - opt-4 programmable relay outputs (Form A)
 - std-8 programmable digital inputs available
 - std-2 pre-programmed
 - opt-6 programmable digital inputs
 - opt-1 analog inputs
 - std-Basic Programmable Logic Control (PLC) function
 - std-Set point selection for Standard / Complex software
 - std-Basic Automatic Transfer Switch Control

Compatible with the following optional modules:
 opt-Remote annunciator

COOLING SYSTEM

Radiator and cooling fan complete with protective guards duct adapter

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COOLING SYSTEM (CONT.)

Standard ambient temperatures up to 50degC (122degF)
 50% coolant antifreeze/corrosion inhibitor
 Closed Coolant Recovery System
 Jacket water heater with circulating pump & isolation valves
 (1500W/120Vac) (JWH1501)

EXHAUST SYSTEM

Exhaust Silencer (non-Emissions)
 Exhaust Catalyst and Silencer (Emissions only)

GENERATORS AND GENERATOR ATTACHMENTS

GENERATOR SET
 Complete system designed & built at ISO 9001:2000 certified facilities
 Factory tested to design specifications at full load conditions
 and all protective devices and control functions simulated and checked

GENERATOR
 Insulation system, class H
 Drip proof generator air intake (NEMA 2, IP23)
 Electrical design in accordance with BS5000 Part 99, EN61000-6,
 IEC60034-1, NEMA MG-1.33
 Auxiliary Winding with Permanent Magnet Excitation

EQUIPMENT FINISH
 All electroplated hardware
 Anticorrosive paint protection
 High gloss polyurethane paint for durability and scuff resistance
QUALITY STANDARDS
 BS4999, BS5000, BS5514, EN61000-6, IEC60034, NEMA MG-1.33, NFPA 110 (with
 optional equipment)

INTEGRATED VOLTAGE REGULATOR (Digital):
 EM25 Excitation Module (STDIVR)
 Voltage within +/- 0.25% at steady state from no load to full load
 Provides fast recovery from transient load changes

MOUNTING SYSTEM

Fabricated steel base with lifting points
 Base frame isolation is provided by engine & alternator mounts
 Stub-up pipe ready for connection to silencer pipework (open set)
 Complete OSHA guarding
 Coolant and lube drains piped to the edge of base

STARTING/CHARGING SYSTEM

CAT Premium High Output Battery with rack & cables
 2x12V Installed (wet) 1000CCA; 90amp hr (BAT2454)
 20 amp Battery Charger (BTC2001)
 Charging alternator

GENERAL

Fuel - pipeline quality natural gas at 7- to 11-H2O pressure (NATG)
 Flexible fuel line (stainless steel braided with NPT thread) to
 connect supply line to package (FFLSS)
 Primary and secondary fuel shut-off solenoids

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GENERAL (CONT.)

Standard Pete's Port for pressure measurement

LITERATURE

DOCUMENTATION

Operation and maintenance manual pack and OMM Storage Compartment

Wiring diagrams included

To order extra literature go to:

<https://oos.midlandcorp.com/cat>.

EXTENDED WARRANTY

Warranty per SELF5611

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**60 Hz
 EPA STATIONARY EMERGENCY (EMISSIONS LEVELS)**

I	21LGE51	DG350-1 GC.	0	\$148,285
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I	21LGE52	DG400-1 GC.	0	\$172,636
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I	21LGE53	DG450-1 GC.	0	\$203,944
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60 Hz/50 Hz NON-EMISSIONS

I	21LGE01	DG350-2 GC.	0	\$148,285
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I	21LGE02	DG400-2 GC.	0	\$172,636
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I	21LGE03	DG450-2 GC.	0	\$203,944
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