

GAS PKG. GEN SET (I)
GRIFFIN, GEORGIA

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 TOOL.

List Price at Factory

AVAILABILITY

For product availability go to Power Net at <https://engines.cat.com>
Under the quick links, select Engine Availability Letters.

GLOSSARY OF TERMS

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

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

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DEALER SPECIFIC PRICING TERMS (CONT.)

individual Cat dealers please use Engine Order Management Process (EOMP) quoting and order tools 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, 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 or LEXE7581 for Olympian 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.

AIR INLET SYSTEM

Air cleaner; single element canister type with service indicator

CONTROL PANELS

EMCP 4.2 controls including:

- Run / Auto / Stop Control
- Speed Adjust
- Voltage Adjust
- Engine Cycle Crank
- Emergency stop pushbutton

EMCP 4.2 controller features:

- 24-volt DC operation
- Panel Lights
- Environmental sealed front face
- Dust Proof Enclosure
- Generator Running Relay
- Text alarm/event descriptions
- True RMS AC metering, 3-phase, ?1% accuracy.

Digital indication for:

- RPM
- DC volts
- Operating hours
- Oil pressure (psi, kPa or bar)
- Coolant temperature
- Volts (L-L & L-N), frequency (Hz)
- Amps (per phase & average)
- Power Factor (per phase & average)
- kW (per phase, average & percent)
- kVA (per phase, average & percent)

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CONTROL PANELS (CONT.)

- kVAr (per phase, average & percent)
- kW-hr (total)
- kVAr-hr (total)

Warning/shutdown with common LED indication of shutdowns for:

- Low oil pressure
- High coolant temperature
- Overspeed
- Emergency stop
- Failure to start (overcrank)
- Low coolant temperature
- Low coolant level

Programmable protective relaying functions:

- Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under Frequency (81 o/u)
- Reverse Power (kW) (32)
- Reverse Reactive Power (kVAr) (32RV)
- Overcurrent (50/51)

Communications

- Customer data link (Modbus RTU)
- Accessory module data link
- Serial annunciator module data link
- 6 programmable digital inputs
- 4 programmable relay outputs (Form A)
- 2 programmable relay outputs (Form C)
- 2 programmable digital outputs

Compatible with the following optional modules:

- Digital I/O module
- Local Annunciator
- Remote CAN annunciator
- Remote serial annunciator
- RTD module
- Thermocouple module

COOLING SYSTEM

Radiator with guard

With 50/50 glycol/water mixture).

Coolant drain valves off front of radiator

Fan and belt guards

Caterpillar Coolant

(not included with radiator removal)

Low coolant level sensor

(not included with radiator removal)

TECHNICAL: Please consult TMI for package ambient capability.

EXHAUST SYSTEM

Stainless steel exhaust flex (comes with two
ship-loose weld flanges to be welded to flex tube)

FUEL SYSTEM

Gas pressure regulator

Low pressure fuel system

(1.5 - 5.0 psi/10.3 - 34.5 kPa).

Energize to Run (ETR) gas shutoff valve (GSOV)

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FUEL SYSTEM (CONT.)

Fuel filter is required but not provided as standard: Customer may provide or see Optional Fuel Filters.
Fuel system is sized for 31.5 to 47.2 MJ/Nm³ (800 to 1200 btu/scf).

GENERATORS AND GENERATOR ATTACHMENTS

SR4B Generator - Self Excited (except 412GE58, 412GE59 and 412GE60)
SR4B Generator - Permanent Magnet (412GE58, 412GE59 and 412GE60)
Class H insulation, Class F temperature rise
(105 C Continuous/ 130 C Standby)
12 Lead (600 volt Generators are 6 lead)
VR6 Voltage Regulator (except 412GE58, 412GE59 and 412GE60) or
CDVR Voltage Regulator (412GE58, 412GE59 and 412GE60)
3-phase sensing with reactive droop
2:1 Volts/Hz or 1:1 Volts/Hz
Power terminal strip termination
Extension box
Segregated low voltage (AC/DC) wiring panel
Random wound

GOVERNING SYSTEM

2301A speed control with EG3P actuator
except 412GE58, 412GE59 and 412GE60)

Proact speed controller with Air Fuel Ratio
standard on 412GE58, 412GE59 and 412GE60

IGNITION SYSTEM

Digital Ignition System
(PGSs 350, 450)
Caterpillar Ignition System (controlled by ADEM A4)
(PGSs 375LE, 423LE, 450LE, 500LE)

LUBE SYSTEM

Lubricating oil option
Oil filter
Oil drain line with valve; piped to edge of base
Fumes disposal; piped to front of radiator

MOUNTING SYSTEM

Narrow formed steel base
Linear vibration isolators between base and
engine-generator

STARTING/CHARGING SYSTEM

45 amp charging alternator
24 volt starting motor
Batteries with racks and cables
Battery disconnect switch

GENERAL

Paint, Caterpillar yellow
Note: "Stationary Use Only Label": Effective January 2004, the US
EPA Nonroad Mobile SI rule restricts the use of SI gas engines
in the United States. Caterpillar's Gas Engines are not certi-

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GENERAL (CONT.)

ified for mobile applications within the US and are to be used in "stationary use only" applications. All gas engines will have this label attached regardless of the dealer placing the order.

Note: Torsional analysis is recommended if other than a Caterpillar generator is used.

MANDATORY OPTIONS

Application Indicators

Control panel mounting (left hand - EMCCPLH or right hand - EMCCPRH)

Display Units

Language Options

Voltage Indicators

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Freq.	Volt	RATING				Feature Code	Engine	Governor	Gen
		STANDBY		CONT.					
		kVA	kW	kVA	kW				
60	600	469	375	469	375	412GE53	G3412C LE	2301A	592
60	600	563	450	469	375	412GE27	G3412TA	2301A	592
60	440/480	438	350	438	350	412GE29	G3412TA	2301A	592
60	440/480	469	375	469	375	412GE54	G3412C LE	2301A	592
60	440/480	563	450	469	375	412GE30	G3412TA	2301A	592
60	208	563	450	469	375	412GE32	G3412TA	2301A	592
60	600	625	500	529	423	412GE58	G3412C LE	PROACT	592
60	480	625	500	529	423	412GE59	G3412C LE	PROACT	592
60	208	625	500	529	423	412GE60	G3412C LE	PROACT	592

Freq.	Volt	RATING				Feature Code	Engine	Governor	Gen
		STANDBY		CONT.					
		kVA	kW	kVA	kW				
50	400/415	---	---	350	280	412GE33	G3412TA	2301A	592
50	400/415	---	---	450	360	412GE55	G3412C LE	2301A	592

412GE60 ** DESCRIPTION NOT ON PRDB ** 0 \$224,510
 Standby= 500 kW, Continuous= 423 kW
 Engine= G3412C LE, Governor= Proact w/ AFRC, Aspiration= TA
 Compression Ratio= 11.4
 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS
 Radiator Ambient= Minimum 38 C (100 F) 500 ft at Standby Rating.
 Generator Argt= 136-6637 Frame= 592, No. of Bearings= 1
 Generator Winding= RW, No. of leads= 12, Pitch= 0.7333
 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C
 NOTE: This product is available to be US EPA NSPS Compliant
 The version (208 VAC) is only available with power terminal strips, not with circuit breakers.
 Circuit breakers would need to be externally supplied and installed.

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NOTE: RATINGS ARE WITH FAN UNLESS OTHERWISE SPECIFIED

**600 VOLTS, 60 HERTZ, 1800 RPM,
STANDBY OR CONTINUOUS.**

I	412GE53 G3412C LOW EMISSION 60 HZ PGS 14,000 Standby= 375 kW, Continuous= 375 kW Engine= G3412C LE, Governor= 2301A, Aspiration= TA Compression Ratio= 11.4 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6639, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 6, Pitch= 0.6667 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	\$192,839
I	412GE27 G3412 TA 60 HZ PGS 14,000 Standby= 450 kW, Continuous= 375 kW Engine= G3412, Governor= 2301A, Aspiration= TA Compression Ratio= 9.7 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6639, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 6, Pitch= 0.6667 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	\$186,594
I	412GE58 G3412C LE 60 HZ PGS-STANDBY 0 Standby= 500 kW, Continuous= 423 kW Engine= G3412C LE, Governor= Proact w/ AFRC, Aspiration= TA Compression Ratio= 11.4 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6640, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 6, Pitch= 0.6667 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C NOTE: This product is available to be US NSPS Compliant	\$229,210

**440/254, 480/277 VOLTS, 60 HERTZ, 1800 RPM,
STANDBY OR CONTINUOUS**

I	412GE29 G3412 TA 60 HZ PGS 14,000 Standby= 350 kW, Continuous= 350 kW Engine= G3412, Governor= 2301A, Aspiration= TA Compression Ratio= 9.7 Cooling System= JW, SCAC, 54C; Radiator= 25 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6633, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.8 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	\$179,983
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G3412 PGG

GAS PKG. GEN SET (I) GRIFFIN, GEORGIA		Ship Weight lbs	List Price At Factory
I	412GE54 G3412C LOW EMISSION 60 HZ PGS Standby= 375 kW, Continuous= 375 kW Engine= G3412C LE, Governor= 2301A, Aspiration= TA Compression Ratio= 11.4 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6633, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.8 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	14,000	\$192,839
I	412GE30 G3412 TA 60 HZ PGS Standby= 450 kW, Continuous= 375 kW Engine= G3412, Governor= 2301A, Aspiration= TA Compression Ratio= 9.7 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6633, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.8 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	14,000	\$186,594
I	412GE59 G3412C LE 60 HZ PGS-STANDBY Standby= 500 kW, Continuous= 423 kW Engine= G3412C LE, Governor= Proact w/ AFRC, Aspiration= TA Compression Ratio= 11.4 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6634, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 6, Pitch= 0.8000 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C NOTE: This product is available to be US NSPS Compliant	0	\$227,847
I	412GE32 G3412 TA 60 HZ PGS Standby= 450 kW, Continuous= 375 kW Engine= G3412, Governor= 2301A, Aspiration= TA Compression Ratio= 9.7 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6636, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.7333 Gen Temp. Rise: Standby= 130 C & Continuous= 105 C	14,000	\$187,491

G3412 PGG

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**380/220, 400/230, 415/240 VOLTS, 50 HERTZ, 1500 RPM, 3 PHASE,
SELF-EXCITED, CONTINUOUS**

I	412GE33	G3412 TA 50 HZ PGS 14,000 Continuous= 350 kVA Engine= G3412, Governor= 2301A, Aspiration= TA Compression Ratio= 9.7 Cooling System= JW, SCAC, 54C; Radiator= 25 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6633, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.8 Gen Temp. Rise: Continuous= 105 C	\$179,983
I	412GE55	G3412C LOW EMISSION 50 HZ PGS 14,000 Continuous= 450 kVA Engine= G3412C LE, Governor= 2301A, Aspiration= TA Compression Ratio= 11.4 Cooling System= JW, SCAC, 54C; Radiator= 35 CVS TECHNICAL: Please consult TMI for package ambient capability. Generator Argt= 136-6633, Frame= 592, No. of Bearings= 1 Generator Winding= RW, No. of leads= 12, Pitch= 0.8 Gen Temp. Rise: Continuous= 105 C	\$192,839

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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VOLTAGE INDICATORS

Voltage Indicators

All package gen set orders REQUIRE a voltage be specified. Choose the appropriate voltage feature code from the following list based on frequency and generator arrangement being ordered.

50 Hertz Voltage Indicators

I	50H0415	VOLTAGE INDICATOR 415V (WYE) 0 TECHNICAL: Wye Connection		NC
I	50H0400	VOLTAGE INDICATOR 400V (WYE) 0 TECHNICAL: Wye Connection		NC
I	50H0380	VOLTAGE INDICATOR 380V (WYE) 0 TECHNICAL: Wye connection.		NC

60 Hertz Voltage Indicators

I	60H0600	VOLTAGE INDICATOR 600V (WYE) 0 TECHNICAL: Wye Connection		NC
I	60H0480	VOLTAGE INDICATOR 480V (WYE) 0 TECHNICAL: Wye Connection		NC
I	60H0440	440V, Wye Connection, 60Hz 0 TECHNICAL: Wye connection.		NC
I	60H0208	VOLTAGE INDICATOR 208V (WYE) 0 TECHNICAL: Wye Connection		NC

CERTIFICATIONS

EUROPEAN DIRECTIVE

Select one

I	EUDGDOI	EUROPEAN DIRECTIVE GENSET DOI 0 TECHNICAL: Provides Declaration of Incorporation document per 2006/42/EC (Machinery Safety Directive), and 2006/95/EC (Low Voltage Safety Directive). The Declaration of Incorporation allows free movement of goods in the EU per the Machinery Safety Directive, 2006/42/EC, and references demonstrated compliance to other applicable directives. This is required by OEM manufacturers when the subject product is installed in a more complex installation. CANNOT BE USED WITH: ELEPAC1 or JWH0082. Battery Chargers BTC0505, BTC1036		\$263 NET
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NOTE: Not for use with Hazardous Location engines.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CERTIFICATIONS (CONT.)

EUROPEAN DIRECTIVE (Cont.)

I	NOEUCRT	NO EU CERT REQUEST-SEE DETAILS 0 TECHNICAL: If full CE certification (Declaration of Conformity, complete gensets) or Declaration of Incorporation (partially completed gensets) is not selected then this product cannot be legally placed on the market in the EU/EEA or any country where the product would otherwise be subject to national legislation implementing the requirements of the machinery directive (2006/42/EC) (collectively "the Region"). If shipped to an address in the Region without the necessary certification/documentation, the buyer has undertaken that the product will then be exported from the Region.		NC
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EURASIAN CONFORMITY

Select one

I	NOEACRT	NO EA CERT REQUEST-SEE DETAILS 0		NC
I	EACCERT	EURASIAN CONFORMITY (EAC) MARK 0 A mandatory attachment that provides Eurasian Economic Union (EAEU) compliance to: Low Voltage (CU TR 004) and EMC (CU TR 020). The EAC compliance process allows the free movement of goods in the Eurasian Economic Union and other countries with applicable EAEU trade agreements. Includes EAC and Month/Year of manufacture label. REQUIRES: EUDGDOI		\$271 NET

GRID CODE COMPLIANCE

Select one

I	GD CDNRE	GRID CODE COMPLIANCE NOT REQ 0 Dynamic grid codes, also known as electrical network codes, provide conditions under which a generator connected to the public electrical grid must meet to help ensure safe, secure operation of the grid. These codes can vary depending on the regional, national, or international grid authority. If you have a project with a specific electrical grid code requirement, and you anticipate quoting Electric Power Gas genset products from the price list of a US source facility, please contact the ASC for assistance. Cat gas genset products are not guaranteed compliant with any specific country's grid code requirements. By working with the ASC, we can evaluate the project requirements and quote products that will meet specific electrical network codes.		NC
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APPLICATION INDICATORS

Application Indicators

One of the following Application Indicators must be selected for each PGS pricing arrangement ordered. Provides power setting and name plate for use in specified applications.

I	STANDBY	STANDBY POWER APPLICATION 0 For application at Standby rating.		NC
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USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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APPLICATION INDICATORS (CONT.)

Application Indicators (Cont.)

I	CONTINU	CONTINUOUS POWER APPLICATION 0 For application at Continuous rating.	NC
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USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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APPLICATION INDICATORS (CONT.)

Market Segmentation

Select one code to define expected end use.

I	MSEPGGS	END USE: GENERAL EPG GAS 0 All gaseous fueled, spark ignited generator sets utilized in the generation of electrical power and or combined heat and power applications including cogen, trigen, and quadgen. These gas genset products are applied in, but not limited to commercial, industrial, agricultural, utility, public and civil service sectors. These products are often leveraged in utility applications, food processing plants, landfill sites, agriculture livestock facilities, wastewater treatment plants, biofuel manufacturing plants, communication sites, data centers, commercial/residential buildings, manufacturing plants, greenhouses, and mining sites. These gensets are often applied in base load, load management, and standby applications. This category should not be used for EP Rental, Petroleum, Locomotive, or Marine electric power applications.		NC
I	MSPMDXQ	END USE: EPG Rental-All Product 0 All Power Modules and Rental units, utilized in energy utilities, communications, commercial and residential buildings, agricultural, construction, mining, manufacturing, public and civil services. This category should not be used for Petroleum, Locomotive, or Marine electric power applications. Please ensure the selected unit complies with regional emission standards.		NC
I	MSPETDR	PETROLEUM LAND DRILLING 0 Engines, transmissions and packages used to drill oil and gas wells (including auxiliary GEN Sets mounted on drill rigs). This includes Petroleum, Industrial, EPG, and Marine price list products.		NC
I	MSPETPG	END USE: PETRO PRODUCTION/PUMP 0 All engines utilized in the generation of mechanical and electrical power for exploration, recovery and transmission of petroleum products including gathering, production, pumping, and refining, (BUT NOT GAS COMPRESSION or drilling). Applications include camp power, emergency GEN Sets (non-drilling), prime power at production and storage facilities, cranes, fire pumps, air compressors, primary or secondary recovery systems such as down hole pumps, water flood or disposal systems, etc. This includes rental products which fit Petroleum Production/Pumping market segment description. This includes industrial, marine, and EPG price list products.		NC
I	MSPETOD	PETRO OFFSHORE DRILLING 0 Engines and genset packages used as main sources of power for drilling duty or for emergency power on offshore oil & gas drill rigs (but not on production rigs, platforms, or facilities). Does not include firepumps or cranes for drilling or production rigs, platforms, or facilities.		NC

DISPLAY UNITS

Display Units

Select one of the following display options. Provides control panel and instrument displays in specified units.

I	EMCENGU	ENGLISH DISPLAY UNITS 0		NC
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DISPLAY UNITS (CONT.)

Display Units (Cont.)

I	EMCMETU	METRIC DISPLAY UNITS	0	NC
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ENGINE RATING AND SPEED

Ratings

Select one of the following ratings.

I	PSTSPCL	SPECIAL SETTING REQUEST	0	NC
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60 Hertz

I	KW00500	500 KW W/FAN	0	NC
		ONLY FOR USE WITH: 412GE58, 412GE59 or 412GE60 Standby		
I	KW00450	450 ekW W/FAN	0	NC
		ONLY FOR USE WITH: Standby		
I	KW00423	423 EKW W/FAN	0	NC
		ONLY FOR USE WITH: 412GE58, 412GE59 and 412GE60 Standby or Continuous		
I	KW00375	375 EKW W/FAN	0	NC
		ONLY FOR USE WITH: Standby or Continuous		
I	KW00350	350 ekW W/FAN	0	NC
		ONLY FOR USE WITH: Standby or Continuous		

50 Hertz

I	KV00450	450 kVA W/FAN	0	NC
		ONLY FOR USE WITH: Continuous		
I	KV00350	350 kVA W/FAN	0	NC
		ONLY FOR USE WITH: Continuous		

LANGUAGE OPTIONS

Language Options - select ONE

Provides nameplate, decals, and operator's manual in specified language. For other Language Options contact your Marketing Profit center. Additional literature available through Corporate Literature System.

I	LANENGO	LANGUAGE MARKINGS-ENGLISH	0	NC
I	LANFREO	LANGUAGE MARKINGS-FRENCH	0	NC
I	LANPORO	LANGUAGE MARKINGS-PORTUGESE	0	NC
I	LANSPA0	LANGUAGE MARKINGS-SPANISH	0	NC

Controller Language Options - select ONE

Provides additional language for genset controller.

I	LANENGC	ENGLISH LANGUAGE- GENSET CNTL	0	NC
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LANGUAGE OPTIONS (CONT.)

Controller Language Options - select ONE (Cont.)

I	LANFREC	FRENCH LANGUAGE- GENSET CNTL	0	NC
I	LANPORC	PORTUGUESE LANGAUGE-GENSET CNT	0	NC
I	LANSPAC	SPANISH LANGUAGE- GENSET CNTL	0	NC

LUBE SYSTEM

Lubricating Oil

I	LUBOILU	LUBRICATING OIL - ULTRA TECHNICAL: Cat NCEO, ULTRA 40 Wt, 170 L (44.9 gal).	0	\$964
I	NOLUB01	NO LUBRICATING OIL DESIRED TECHNICAL: Engine shipped dry.	0	NC

MANDATORY OPTIONS

NSPS Emission Rule

US EPA SI (Spark Ignited) Stationary NSPS (New Source Performance Standard) Regulations:

Effective July 2007, the US EPA will enforce the new Spark Ignited New Source Performance Standard (SI NSPS) for gas stationary engines operating in the United States equal to or above 500 bhp. Effective January 1 2008, this standard will apply to all gas engines rated below 500 bhp. This rule will affect all continuous applications including landfill and ag biogas. Effective January 1 2009, this rule will apply to all Standby units. For more information, see Cat Power Net website: Product News dated April 2007, Media Number LEXE7149.

I	NSPSNUS	NON-U.S. GENSET Application--gas generator sets used outside of the United States of America. The SI NSPS rule does not apply.	0	NC
I	NONNSPS	NSPS NON-COMPLIANT ENG Application--gas generator sets to be used in continuous power applications in the United States (all gasses including digester, landfill and ag bio-gas).	0	NC

Even after extensive modifications these gensets are not expected to meet the SI NSPS customer-conducted field emissions test. Examples are the G3300 and G3400 ratings. Nearly all these rich burn ratings have 2 to 4% excess oxygen in the exhaust. To use a 3-way catalyst, the excess oxygen must be near 0%, or ratings must be labeled as "Cat" or "catalyst" ratings. The G3500 LE products have a nominal 2 g/bhp-hr Nox setting. NSPS requires a not-to-exceed 2 g/bhp-hr limit. Possible lower Nox settings are available for G3500 LE products through an SRR (Special Rating Request).

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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MANDATORY OPTIONS (CONT.)

NSPS Emission Rule (Cont.)

I	NSPSCOM	U.S. NSPS COMPLIANT 0		NC
		Application - gas generator sets to be used in continuous power applications in the United States and Puerto Rico. (all gases other than propane).		
		It is the customer's responsibility emissions testing and obtain all appropriate air board permits. This engine is excluded from the requirements of 40 CFR part 1048 as a -stationary engine- and the owner/operator must comply with the requirements of 40 CFR part 60. Installing or using this engine in any other application may be a violation of federal law subject to civil penalty. The Continuous 423 kW product does not meet the CO or VOC limits and will need an aftertreatment solution. Refer to the US Environmental Protection Agency website at https://www.epa.gov/stationary-engines for NSPS and NESHAP compliance requirements. State and local requirements may also apply. ONLY FOR USE WITH: Standby= 500 kW, Continuous= 423 kW		

EXTENDED SERVICE COVERAGE

Cat Branded Commercial Power Systems

Customer must select one of the following Extended Service Coverage options for Cat branded commercial power systems. If no ESC is desired, select feature code for NO ESC.

For coverage details, including covered components and exclusions, see applicable contract (<https://Dealer.cat.com/ESC>). All options included here are \$0 deductible.

I	ECI2D01	PLATINUM COVERAGE 0		\$1,800 NET
		Prime/Continuous: 24 months, 1,500 hours, \$0 deductible		
I	ECM2D01	PLATINUM PLUS COVERAGE 0		\$2,060 NET
		Prime/Continuous: 24 months, 1,500 hours, \$0 deductible		
I	ECI2K01	PLATINUM COVERAGE 0		\$5,040 NET
		Prime/Continuous: 24 months, 5,000 hours, \$0 deductible		
I	ECM2K01	PLATINUM PLUS COVERAGE 0		\$5,760 NET
		Prime/Continuous: 24 months, 5,000 hours, \$0 deductible		
I	ECI2R01	PLATINUM COVERAGE 0		\$9,190 NET
		Prime/Continuous: 24 months, 12,000 hours, \$0 deductible		
I	ECM2R01	PLATINUM PLUS COVERAGE 0		\$10,500 NET
		Prime/Continuous: 24 months, 12,000 hours, \$0 deductible		
I	ECI3E01	PLATINUM COVERAGE 0		\$3,360 NET
		Prime/Continuous: 36 months, 2,000 hours, \$0 deductible		
I	ECM3E01	PLATINUM PLUS COVERAGE 0		\$3,840 NET
		Prime/Continuous: 36 months, 2,000 hours, \$0 deductible		
I	ECI3K01	PLATINUM COVERAGE 0		\$6,970 NET
		Prime/Continuous: 36 months, 5,000 hours, \$0 deductible		
I	ECM3K01	PLATINUM PLUS COVERAGE 0		\$7,970 NET
		Prime/Continuous: 36 months, 5,000 hours, \$0 deductible		
I	ECI3R01	PLATINUM COVERAGE 0		\$12,010 NET
		Prime/Continuous: 36 months, 12,000 hours, \$0 deductible		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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EXTENDED SERVICE COVERAGE (CONT.)

Cat Branded Commercial Power Systems (Cont.)

I	ECM3R01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 36 months, 12,000 hours, \$0 deductible		\$13,720 NET
I	ECI4F01	PLATINUM COVERAGE 0 Prime/Continuous: 48 months, 2,500 hours, \$0 deductible		\$4,990 NET
I	ECM4F01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 48 months, 2,500 hours, \$0 deductible		\$5,700 NET
I	ECI4K01	PLATINUM COVERAGE 0 Prime/Continuous: 48 months, 5,000 hours, \$0 deductible		\$8,450 NET
I	ECM4K01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 48 months, 5,000 hours, \$0 deductible		\$9,650 NET
I	ECI4R01	PLATINUM COVERAGE 0 Prime/Continuous: 48 months, 12,000 hours, \$0 deductible		\$14,210 NET
I	ECM4R01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 48 months, 12,000 hours, \$0 deductible		\$16,240 NET
I	ECI5G01	PLATINUM COVERAGE 0 Prime/Continuous: 60 months, 3,000 hours, \$0 deductible		\$6,770 NET
I	ECM5G01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 60 months, 3,000 hours, \$0 deductible		\$7,740 NET
I	ECI5K01	PLATINUM COVERAGE 0 Prime/Continuous: 60 months, 5,000 hours, \$0 deductible		\$9,840 NET
I	ECM5K01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 60 months, 5,000 hours, \$0 deductible		\$11,250 NET
I	ECI5R01	PLATINUM COVERAGE 0 Prime/Continuous: 60 months, 12,000 hours, \$0 deductible		\$16,340 NET
I	ECM5R01	PLATINUM PLUS COVERAGE 0 Prime/Continuous: 60 months, 12,000 hours, \$0 deductible		\$18,670 NET
I	ECB3D01	SILVER COVERAGE 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$500 NET
I	ECF3D01	GOLD COVERAGE 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$750 NET
I	ECJ3D01	PLATINUM COVERAGE 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$870 NET
I	ECN3D01	PLATINUM PLUS COVERAGE 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$990 NET
I	ECB4E01	SILVER COVERAGE 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$900 NET
I	ECF4E01	GOLD COVERAGE 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,350 NET
I	ECJ4E01	PLATINUM COVERAGE 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,580 NET
I	ECN4E01	PLATINUM PLUS COVERAGE 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,810 NET
I	ECB5F01	SILVER COVERAGE 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$1,430 NET
I	ECF5F01	GOLD COVERAGE 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,150 NET
I	ECJ5F01	PLATINUM COVERAGE 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,510 NET
I	ECN5F01	PLATINUM PLUS COVERAGE 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,870 NET
I	ECB0K01	SILVER COVERAGE 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$6,130 NET
I	ECF0K01	GOLD COVERAGE 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$9,200 NET

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
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EXTENDED SERVICE COVERAGE (CONT.)

Cat Branded Commercial Power Systems (Cont.)

I	ECJ0K01	PLATINUM COVERAGE 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$10,730 NET
I	ECN0K01	PLATINUM PLUS COVERAGE 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$12,260 NET

No ESC

I	ESCNONE	NO EXTENDED SERVICE COVERAGE 0		NC
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS

Package Genset Full Load Amps

Full Load Amps at indicated L-to-N/L-to-L Voltage and 0.8 pf

Circuit Breaker
Full Load Amps

Freq	Volts	-----PGS-----		
		350	450LE	
50	415/240	487	627	
50	400/230	527	650	
50	380/220	532	685	
50	220/127	920	1182	

Freq	Volts	-----PGS-----		
		350	375LE	450
60	600	421	452	542
60	480/277	527	564	677
60	440/254	575	616	739
60	240/139	1054	1129	1355
60	220/127	1150	1232	1478
60	208/120	1216	1303	1563

Recommended Circuit Breaker Sizing - Package Mounted

Circuit Breaker size (in Amps) at indicated L-to-L/L-to-N Voltage and 0.8 pf

Breaker Sizing (Package Mounted)

Freq	Volts	-----PGS-----		
		350	450LE	
50	415/240	600	700	
50	400/230	600	800	
50	380/220	600	800	
50	220/127	1000	1200	

Freq	Volts	-----PGS-----		
		350	375LE	450
60	600	500	500	700
60	480/277	600	700	800
60	440/254	700	700	1000
60	240/139	1200	1200	1600
60	220/127	1200	1600	1600
60	208/120	1600	1600	1600

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS (CONT.)

Circuit Breaker (CB) Orientation

Up to 3 CB's (1 through 3), can be accommodated;
NA with Power Terminal Strips.

I	PTSREM1	POWER TERMINAL STRIP REMOVAL 0 TECHNICAL: Removes generator bus bars. REQUIRES: Package mounted circuit breaker. CANNOT BE USED WITH: Floor standing breaker or 412GE60 NOTE: NOT for use with 412GE60		\$-230
I	CBRR000	CIRCUIT BREAKER MOUNTING-REAR 0 TECHNICAL: Provides rear mounting of first circuit breaker. REQUIRES: Package mounted circuit breaker, rear mounted control panel and PTS removal PTSREM1.		NC
I	CBRH002	CIRCUIT BREAKER MOUNTING-RH. 0 TECHNICAL: Provides right hand mounting for first circuit breaker. REQUIRES: Package mounted circuit breaker, right hand mounted control panel, and PTS removal PTSREM1.		NC
I	CBLH002	CIRCUIT BREAKER MOUNTING-LH. 0 TECHNICAL: Provides left hand mounting for first circuit breaker. REQUIRES: Package mounted circuit breaker, left hand mounted control panel, and PTS removal PTSREM1.		NC
I	CBRH003	CIRCUIT BREAKER MOUNTING-RH. 0 TECHNICAL: Provides right hand mounting for second/third circuit breaker. REQUIRES: Package mounted circuit breaker and rear or left hand control panel and PTS removal. CANNOT BE USED WITH: C/B Mounting CBRH002.		\$723
I	CBLH003	CIRCUIT BREAKER MOUNTING-LH. 0 TECHNICAL: Provides left hand mounting for second/third circuit breaker. REQUIRES: Package mounted circuit breaker and rear or right hand mounted control panel. CANNOT BE USED WITH: C/B Mounting CBLH002.		\$966

3 Pole (UL-80% Rated) Circuit Breakers with Shunt Trip

Package Mounted - See table for sizing.
May order up to three circuit breakers total.

First Circuit Breaker (CB1)

Must be the largest breaker when multiple breakers are ordered.

I	CBK0047	CIRCUIT BREAKER - 700 AMP 0		\$2,989
I	CBK0048	CIRCUIT BREAKER - 800 AMP 0		\$2,989
I	CBK0049	CIRCUIT BREAKER - 1000 AMP 0		\$3,490
I	CBK0050	CIRCUIT BREAKER - 1200 AMP 0		\$3,652
I	CBK0051	CIRCUIT BREAKER - 1600 AMP 0 TECHNICAL: Includes auxiliary contacts.		\$6,726

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS (CONT.)

First Circuit Breaker (CB1) (Cont.)

I	CBK0153	CIRCUIT BREAKER - 450 AMP	0	\$2,772
I	CBK0090	CIRCUIT BREAKER - 500 AMP	0	\$2,772
I	CBK0091	CIRCUIT BREAKER - 600 AMP	0	\$2,772

Second Circuit Breaker (CB2)

Choose one of these feature codes if you require a second circuit breaker mounted on the package. Breaker must be less than or equal to the size of the first circuit breaker, if choosing two breakers. If choosing three circuit breakers, the second breaker (CB2) must be 600 Amps or less.

I	CBK0054	CIRCUIT BREAKER - 150 AMP	0	\$2,630
I	CBK0056	CIRCUIT BREAKER - 200 AMP	0	\$2,652
I	CBK0057	CIRCUIT BREAKER - 225 AMP	0	\$2,652
I	CBK0061	CIRCUIT BREAKER - 400 AMP	0	\$2,870
I	CBK0064	CIRCUIT BREAKER - 600 AMP	0	\$3,490

Third Circuit Breaker (CB3)

Choose one of these feature codes if you require a third circuit breaker mounted on the package. The third breaker (CB3) must be less than or equal to the size of the second circuit breaker (CB2).

I	CBK0072	CIRCUIT BREAKER - 150 AMP	0	\$1,904
I	CBK0079	CIRCUIT BREAKER - 400 AMP	0	\$2,401

Circuit Breaker Auxiliary Contacts

For 3 pole, UL, 80% rated, Package Mounted Circuit Breakers. Order one, two, or three depending upon the number of circuit breakers ordered (only one per breaker). Refer to Circuit Breaker Sizing Table for circuit breaker sizes.

Circuit Breaker Auxiliary Contacts - First Breaker

For use with first circuit breaker (CB1)

I	CBS3P01	CIRCUIT BREAKER AUX. CONTACT	0	\$310
		REQUIRES: 3 pole, UL circuit breaker rated 100 to 600 amps.		
I	CBS3P02	CIRCUIT BREAKER AUX. CONTACT	0	\$310
		REQUIRES: 3 pole, UL circuit breaker rated 700 to 1000 amps.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS (CONT.)

Circuit Breaker Auxiliary Contacts - Second Breaker

For use with second circuit breaker (CB2)

I	CBS3P04	CIRCUIT BREAKER AUX. CONTACT. 0 REQUIRES: 3 pole, UL circuit breaker rated 100 to 600 amps.		\$310
I	CBS3P05	CIRCUIT BREAKER AUX. CONTACT. 0 REQUIRES: 3 pole, UL circuit breaker, 700 to 1200 amps.		\$310

Circuit Breaker Auxiliary Contacts - Third Breaker

For use with third circuit breaker (CB3)

I	CBS3P07	CIRCUIT BREAKER AUX. CONTACT. 0 REQUIRES: 3 pole, UL circuit breaker rated 100 to 600 amps.		\$310
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS (CONT.)

Recommended Circuit Breaker Sizing - Floor Standing

Circuit Breaker size (in Amps) at indicated L-to-L/L-to-N Voltage and 0.8 pf

Breaker Sizing (Floor Standing)

Freq	Volts	-----PGS-----		
		350	450LE	
50	415/240	--	--	
50	400/230	--	--	
50	380/220	--	--	
50	220/127	--	--	

Freq	Volts	-----PGS-----		
		350	375LE	450
60	600	--	--	--
60	480/277	--	--	--
60	440/254	--	--	--
60	240/139	--	--	1600
60	220/127	--	1600	1600
60	208/120	1600	1600	1600

3 Pole (UL) Circuit Breakers with Shunt Trip - Floor Standing
Shipped loose.

Floor standing Circuit Breaker Enclosure feature the following:
One sheet metal cubicle approximately 80 inches (2032mm) high by 30 inches (762mm) wide by 48 inches (1219.2mm) deep to include the following:

- NEMA 1 for indoor use
- Gasketed Doors
- Upper and lower hinged lockable doors with two point latches
- Door holdbacks
- Powder coated ANSI 61 Gray finish

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CIRCUIT BREAKERS (CONT.)

Molded Case Circuit Breakers (MCCB)

Shipped loose. Breaker is installed in floor standing cabinet. Circuit breakers are UL listed unless otherwise indicated. Includes 24VDC shunt trip and auxiliary contacts in circuit breaker. Cabinet is 762 mm (30 in.) wide, 2032 mm (80 in.) high, 1191 mm (47 in.) deep. Manually operated (M.O.), molded case circuit breakers, standard rated (80%) are mounted through the door. Tin plated aluminum bus runbacks are provided for the customer connections. Designed for top or bottom cable entry.
 Interrupting Ratings of MCCB: (RMS Symmetrical)
 1600A & 2000A = 85kAIC@480V

I	CBK3P43	1600 AMP BREAKER - 3 POLE 0		\$16,382
		CANNOT BE USED WITH: Package mounted breaker.		
I	CBK3P44	2000 AMP BREAKER - 3 POLE 0		\$16,575
		CANNOT BE USED WITH: Package mounted breaker.		

Insulated Case Circuit Breakers (ICCB)

Shipped loose. Breaker is installed in floor standing cabinet. Circuit breakers are UL listed unless otherwise indicated. Includes 24VDC shunt trip and auxiliary contacts in circuit breaker. Cabinet is 762 mm (30 in.) wide, 2032 mm (80 in.) high, 1191 mm (47 in.) deep. Manually operated (M.O.) Insulated Case circuit breakers are 100% rated and mounted thru the door. Tin plated aluminum bus runbacks are provided for customer connection.
 Interrupting Ratings of ICCB: (RMS Symmetrical)
 Fixed Mount Insulated Case circuit breakers
 1600A - 65kAIC
 2000A - 75kAIC

I	CBK3P47	1600 AMP BREAKER - 3 POLE 0		\$13,887
		CANNOT BE USED WITH: Package mounted breaker.		
I	CBK3P48	2000 AMP BREAKER - 3 POLE 0		\$13,911
		CANNOT BE USED WITH: Package mounted breaker.		

CONTROL PANELS

Control Panel Mounting

I	EMCCPRH	CONTROL PANEL MOUNTING - RH 0		NC
		REQUIRES: PTSRH01 or CBRH002		
I	EMCCPLH	CONTROL PANEL MOUNTING - LH 0		NC
		REQUIRES: PTSLH01 or CBLH002		

Control Panel Options

I	EMCCAS1	COMMON ALARM/SHUTDOWN RELAY 0		\$155
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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CONTROL PANELS (CONT.)

Control Panel Options (Cont.)

I	CNTCT08	CONTACTOR-AC 0 Standard on 412GE58, 412GE59 and 412GE60 TECHNICAL: Provides AC contactor for disconnecting space heaters, battery charger or jacket water heater when engine is running. REQUIRES: Space heater, battery charger, jacket water heater or premium generator option. CANNOT BE USED WITH: 412GE58, 412GE59 or 412GE60		\$146
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Annunciator Modules

I	EMCLAM1	NFPA 99/110 LOCAL ANNUNCIATOR 0 110/CSA 282 Local Annunciator installed. TECHNICAL: Labeled for NFPA99-110/CAS 282.		\$872
I	EMCLAM4	CUSTOM 16-LIGHT LOCAL ANNUNCIATOR 0 TECHNICAL: Provides installed 16-point (32 light) annunciator module with NO LABEL. Label kit is shipped loose.		\$750
I	EMCLAM5	2ND CUSTOM 16-LIGHT ANNUNCIATOR 0 TECHNICAL: Provides installed 16-point (32 light) annunciator module with NO LABEL. Label kit is shipped loose.		\$643

Remote Annunciator Modules

1	ANNUNSL	REMOTE ANNUNCIATOR 0 TECHNICAL: Provides, 16 point/32 light annunciator, accessory CAN data link, shipped loose, with NFPA 99-110/CSA 282 label.		\$872
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Customer Interface Options

I	EMCSDP2	DISCRETE I/O MODULE 0 TECHNICAL: Provides 12 digital inputs and 8 'FORM C' relay (shipped loose) outputs. Not programmed		\$567
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COOLING SYSTEM

Radiator Removal

I	RADRM31	RADIATOR REMOVAL 0 REQUIRES: 60 Hz 3412 TA engine @ 350 kW or 50 Hz 3412 TA engine @ 350 kVA (PGS 350). CANNOT BE USED WITH:		\$-15, 554
I	RADRM32	RADIATOR REMOVAL 0 REQUIRES: 60 Hz 3412 TA engine @ 375/450 kW (PGS 450). CANNOT BE USED WITH:		\$-17, 559
I	RADRM33	RADIATOR REMOVAL 0 REQUIRES: 60 Hz 3412C LE engine @ 375 kW or 50 Hz 3412C LE engine @ 450 kVA (PGS 375LE, 450LE). CANNOT BE USED WITH:		\$-25, 764
I	RADRM34	RADIATOR REMOVAL 35CVS 0 REQUIRES: 60 Hz 3412C LE engine @ 500 kW (PGS 500). ONLY FOR USE WITH: 412GE58, 412GE59 or 412GE60		\$-23, 234

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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COOLING SYSTEM (CONT.)

Jacket Water Coolant Heaters

I	JWH0080	JACKET WATER HEATER-SINGLE W/P 0 TECHNICAL: 220 Volts, 50 Hz, single phase, 9 kw. CE compliant REQUIRES: Contactor-AC CNTCT08. ONLY FOR USE WITH: 50 Hz, Package gensets.		\$2,154
I	JWH0081	JACKET WATER HEATER-SINGLE W/P 0 Comes standard on 412GE58 and 412GE59 TECHNICAL: 240 Volts, 60 Hz, single phase, 9 kw. UL listed REQUIRES: Contactor-AC CNTCT08. ONLY FOR USE WITH: 60 Hz, Package gensets. CANNOT BE USED WITH: 412GE58, 412GE59 or 412GE60		\$2,154

Aftercooler Cores

I	CSCRA01	CORROSION RESIST. AFTERCOOLER 0 TECHNICAL: Replaces standard aftercooler cores with cores made stainless steel. Engine performance is unchanged with these stainless steel cores. ONLY FOR USE WITH: Pipeline natural gas having trace amounts of H2S up to 20 ppm. CANNOT BE USED WITH: G3412C LE GENSETS.		\$2,654
I	AFTCL08	CORROSION RESISTANT AFTCLR CORE 0 TECHNICAL: Replaces standard aftercooler cores with cores made from stainless steel. Engine performance is unchanged with these stainless steel cores. ONLY FOR USE WITH: Pipeline natural gas having trace amounts of H2S up to 20 ppm. G3412C LE GENSETS.		\$143

Fan Pulleys & Belt Set

Installed.

I	FDV0039	FAN PULLEYS & BELT SET 0 TECHNICAL: .485 to 1 ratio. REQUIRES: PGS 412GE27, 412GE29, 412GE30, or 412GE32..		\$78
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EXHAUST SYSTEM

Elbow

Shipped loose. Weldable, 90 degree bend.

I	EXCEL02	ELBOW KIT 0 TECHNICAL: 203 mm (8 in) standard schedule short radius elbow. ONLY FOR USE WITH: Flange (EXCFL03) and customer supplied 203 mm (8 in) pipe.		\$515
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Exhaust Outlet Flange

Shipped loose. Weldable. Includes one set of hardware and gasket to bolt flange to engine exhaust outlet elbow.

I	EXCOF02	EXHAUST OUTLET FLANGE 0 TECHNICAL: 203 mm (8 in).		\$184
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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EXHAUST SYSTEM (CONT.)

Flex and Weld Flange Removal

I	EXHREM1	FLEX/FLANGE REMOVAL	0	\$-184
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Rain Cap

I	RCP0802	RAIN CAP. TECHNICAL: 203 mm (8 in.) - Sets on 203 mm (8 in.) TUBE; Does not fit 203 mm (8 in.) pipe.	0	\$64
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Mufflers

Shipped loose.

I	MUF0001	MUFFLER-15DBA/203MM Includes 2 weld flanges, fasteners, & gaskets. TECHNICAL: 15 dBA typical sound attenuation. Includes mating flanges for welding to 203 mm (8 in) pipe.	0	\$1,239
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FUEL SYSTEM

Fuel System

Fuel system components are sized to supply fuel to a single generator set. Use of single system components for multiple units may result in inadequate fuel flow. For design and sizing guidelines refer to Gaseous Fuel Systems A&I Guide.

Fuel Filter

I	FULFL13	GAS FILTER Remote mounted gas filter for use upstream of engine fuel inlet. Filter selected to provide no greater than 2 kPa (0.3 psi) initial pressure differential with new element for 10.3 kPa (1.5 psi) or greater gas supply at rated flow. Maximum working pressure of 450 kPa (65 psi). Comes with one element designed to filter 1 micron particle size. 3" NPT filter inlet/outlet connections. Manufactured in accordance with European Pressure Equipment Directive (PED). Shipped loose. ONLY FOR USE WITH: Dry pipeline natural gas. CANNOT BE USED WITH: PGS 512GE04.	0	\$3,298
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS

******* All OPTIONAL GENERATORS require a generator removal. *******

OPTIONAL GENERATORS COMPATIBILITY TABLES

VOLTAGE KEY:

- * = 600
- ** = 480/277, 440/254
- **** = 208/120
- ++ = 415/240, 400/230, 380/220

Nominal Frame Size Generators--Permanent Magnet

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
60	*	350/375/450	350/375/375	592	OGNPM0F	RPA0103
60	**	350/375/450	350/375/375	592	OGNPM0V	RPA0117
60	****	350/375/450	350/375/375	592	OGNPM0N	RPA0110
50	++	---	350/450	592	OGNPM0V	RPA0117

Nominal Frame Size Generators--Premium

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
60	*	350/375/450	350/375/375	592	OGN6L01	RPA0103
60	*	500	---	592	OGN6L01	RPA0415
60	**	350/375/450	350/375/375	592	OGN1209	RPA0117
60	**	500	---	592	OGN1209	RPA0414
50	++	---	350/450	592	OGN1209	RPA0117

USE	REF NO.	OPTIONAL ATTACHMENTS			Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

OPTIONAL GENERATORS COMPATIBILITY TABLES (Cont.)

Single Oversize Frame Generators--Permanent Magnet

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
			50 Hz=kVA			
			60 Hz=kW			
60	**	350/375/450	350/375/375	593	OGNPM0W	RPA0117
60	**	500	---	593	OGNPM0W	RPA0414
60	****	350/375/450	350/375/375	593	OGNPM00	RPA0110
50	++	---	350/450	593	OGNPM0W	RPA0117

Single Oversize Frame Generators--Self Excited

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
			50 Hz=kVA			
			60 Hz=kW			
60	**	350/375/450	350/375/375	593	OGNSE95	RPA0117
50	++	---	350/450	593	OGNSE95	RPA0117

Single Oversize Frame Generators--Premium

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
			50 Hz=kVA			
			60 Hz=kW			
60	*	350/375/450	350/375/375	593	OGN6L02	RPA0103
60	*	500	---	593	OGN6L02	RPA0415
60	**	350/375/450	350/375/375	593	OGN1210	RPA0117
60	**	500	---	593	OGN1210	RPA0414
50	++	---	350/450	593	OGN1210	RPA0117

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

OPTIONAL GENERATORS COMPATIBILITY TABLES (Cont.)

Double Oversize Frame Generators--Permanent Magnet

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
			50 Hz=kVA			
			60 Hz=kW			
60	*	350/375/450	350/375/375	594	OGNPM0H	RPA0103
60	*	500	---	594	OGNPM0H	RPA0415
60	**	350/375/450	350/375/375	594	OGNPM0X	RPA0117
60	**	500	---	594	OGNPM0X	RPA0414
50	++	---	350/450	594	OGNPM0X	RPA0117

Double Oversize Frame Generators--Premium

HZ	Volts	Ratings		Generator Frame	Order #	Generator Removal
		Standby	Continuous			
			50 Hz=kVA			
			60 Hz=kW			
60	**	350/375/450	350/375/375	594	OGN1211	RPA0117
60	**	500	---	594	OGN1211	RPA0414
50	++	---	350/450	594	OGN1211	RPA0117

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

GENERATOR REMOVALS

I	RPA0103	GENERATOR REMOVAL 0 REQUIRES: 60 Hz PGS with a 592 frame generator at 600 volts. CANNOT BE USED WITH: 412GE58		\$-27,296
I	RPA0117	GENERATOR REMOVAL 0 REQUIRES: 60 Hz PGS with a 592 frame generator at 480/277, 440/254, 240/139, or 220/127 volts; or 50 Hz PGS with a 592 frame generator at 415/240, 400/230, 380/220, or 220/127 volts. CANNOT BE USED WITH: 412GE59		\$-27,122
I	RPA0110	GENERATOR REMOVAL 0 REQUIRES: 60 Hz PGS with a 592 frame generator at 208/120 volts.		\$-28,253
I	RPA0414	GENERATOR REMOVAL 0 REQUIRES: 60 Hz PGS with a 592 frame generator at 480/277, 440/254, 240/139, or 220/127 volts ONLY FOR USE WITH: 412GE59		\$-28,088
I	RPA0415	GENERATOR REMOVAL 0 REQUIRES: 60 Hz PGS with a 592 frame generator at 600 volts ONLY FOR USE WITH: 412GE58		\$-29,626

ATTACHMENT GENERATOR ARRANGEMENT FOR PGS

Brushless SR4B generators installed. Ratings are with fan. Provides SE machines, increased motor starting capacity or Premium generators. Pricing for each feature code is listed after the following.

ORDERING INSTRUCTIONS

To order any optional generator at the same voltage include STD removal feature code on order and feature code of desired generator.

Example: To order a 593 frame, permanent magnet, oversize generator on a 600 volt, 60 Hz, 375 kW standby or 375 kW continuous PGS, order STD generator removal RPA0103 and 593 frame generator OGNPMOG.

Premium Generators Include:

- Permanent Magnet (PM) excitation
- Winding temperature detectors (type J thermocouples, 2 per phase)
- Bearing temperature detector (100 ohm Platinum RTD)
- Premium insulation system (Coastal insulation protection)
- Space heater

OPTIONAL GENERATORS FOR 60 HZ PACKAGE GEN SETS

**OPTIONAL GENERATORS
600 VOLTS @ 60 HZ, 1800 RPM, 3 PHASE**

I	OGNPM0F	GENERATOR 592 FRAME - 1 BRG 0 TECHNICAL: 600 volts at 60 hertz. Generator Argt= 136-6640 Winding= Random Wound, No. of Leads= 6 Excitation= Permanent Magnet, Pitch= .6667 REQUIRES: Generator Removal CANNOT BE USED WITH: 412GE58		\$30,093
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

ATTACHMENT GENERATOR ARRANGEMENT FOR PGS (Cont.)

I	OGNPM0H	GENERATOR 594 FRAME - 1 BRG 0 TECHNICAL: 600 volts at 60 hertz. Generator Argt= 136-6622 Winding= Random Wound, No. of Leads= 6 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$27,946
I	OGN6L01	GENERATOR 592 FRAME - PREMIUM 0 TECHNICAL: 600 volts at 60 hertz. Generator Argt= 136-6641 Winding= Random Wound, No. of Leads= 6 Excitation= Permanent Magnet, Pitch= .6667 REQUIRES: Generator Removal and Contactor CNTCT08.		\$32,562
I	OGN6L02	GENERATOR 593 FRAME - PREMIUM 0 TECHNICAL: 600 volts at 60 hertz. Generator Argt= 136-6632 Winding= Random Wound, No. of Leads= 6 Excitation= Permanent Magnet, Pitch= .6667 REQUIRES: Generator Removal and Contactor CNTCT08.		\$34,406

**OPTIONAL GENERATORS
 480/277 VOLTS @ 60 HZ, 1800 RPM
 3 PHASE**

I	OGNPM0V	GENERATOR 592 FRAME - 1 BRG 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6634 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .8000 REQUIRES: Generator Removal CANNOT BE USED WITH: 412GE59		\$28,555
I	OGNSE95	GENERATOR 593 FRAME - 1 BRG 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6624 Winding= Random Wound, No. of Leads= 12 Excitation= Self Excited, Pitch= .7333 REQUIRES: Generator Removal CANNOT BE USED WITH: 412GE59		\$29,821
I	OGNPM0W	GENERATOR 593 FRAME - 1 BRG 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6625 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$31,524
I	OGNPM0X	GENERATOR 594 FRAME - 1 BRG 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6616 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$27,946

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

(Cont.)

I	OGN1209	GENERATOR 592 FRAME - PREMIUM 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt = 136-6635 Winding = Random Wound, No. of Leads = 12 Excitation = Permanent Magnet, Pitch = .8000 REQUIRES: Generator Removal and Contactor CNTCT08.		\$30,768
I	OGN1210	GENERATOR 593 FRAME - PREMIUM 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6626 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal and Contactor CNTCT08.		\$32,820
I	OGN1211	GENERATOR 594 FRAME - PREMIUM 0 TECHNICAL: 480/277 volts at 60 Hz Generator Argt= 136-6617 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal and Contactor CNTCT08.		\$30,401

**OPTIONAL GENERATORS
208/120 VOLTS @ 60 HZ, 1800 RPM, 3 PHASE**

I	OGNPMON	GENERATOR 592 FRAME - 1 BRG 0 TECHNICAL: 208/120 volts at 60 Hz Generator Argt= 136-6637 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$31,245
I	OGNPM00	GENERATOR 593 FRAME - 1 BRG 0 TECHNICAL: 208/120 volts at 60 Hz Generator Argt= 136-6628 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$32,695

OPTIONAL GENERATORS FOR 50 HZ PACKAGE GEN SETS

**OPTIONAL GENERATORS
415/240, 400/230 VOLTS @ 50 HZ, 1500 RPM,
3 PHASE**

I	OGNPM0V	GENERATOR 592 FRAME - 1 BRG 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6634 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .8000 REQUIRES: Generator Removal		\$28,555
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USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATORS AND GENERATOR ATTACHMENTS (CONT.)

OPTIONAL GENERATORS FOR 50 HZ PACKAGE GEN SETS . (Cont.)

I	OGNSE95	GENERATOR 593 FRAME - 1 BRG 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6624 Winding= Random Wound, No. of Leads= 12 Excitation= Self Excited, Pitch= .7333 REQUIRES: Generator Removal		\$29,821
I	OGNPMOW	GENERATOR 593 FRAME - 1 BRG 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6625 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$31,524
I	OGNPMOX	GENERATOR 594 FRAME - 1 BRG 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6616 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal		\$27,946
I	OGN1209	GENERATOR 592 FRAME - PREMIUM 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6635 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .8000 REQUIRES: Generator Removal and Contactor CNTCT01.		\$30,768
I	OGN1210	GENERATOR 593 FRAME - PREMIUM 0 TECHNICAL: 415/240, 400/230 Volts @ 50 Hz Generator Argt= 136-6626 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal and Contactor CNTCT01.		\$32,820
I	OGN1211	GENERATOR 594 FRAME - PREMIUM 0 TECHNICAL: 415/240, 400/230, Volts @ 50 Hz Generator Argt= 136-6617 Winding= Random Wound, No. of Leads= 12 Excitation= Permanent Magnet, Pitch= .7333 REQUIRES: Generator Removal and Contactor CNTCT01.		\$30,401

GENERATOR ATTACHMENTS

I	SHK0001	SPACE HEATER KIT 0 TECHNICAL: Factory wired for 240 VAC REQUIRES: Contactor-AC CNTCT08. CANNOT BE USED WITH: Premium Generator		\$402
I	OVRDG05	DIGITAL VOLTAGE REGULATOR 0 Includes KVAR/PF control REQUIRES: PM excitation generator CANNOT BE USED WITH: 412GE58 or 412GE59		\$780

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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GENERATOR POWER TERMINATION EQUIPMENT

Power Termination Equipment

I	PTSRH01	POWER TERMINAL STRIP MTG-RH 0 TECHNICAL: Provides right hand mounted power terminal strips. REQUIRES: Right hand mounted control panel EMCCPRH. CANNOT BE USED WITH: Package mounted circuit breaker.		NC
I	PTSLH01	POWER TERMINAL STRIP MTG-LH 0 TECHNICAL: Provides left hand mounted power terminal strips. REQUIRES: Left hand mounted control panel EMCCPLH. CANNOT BE USED WITH: Package mounted circuit breaker.		NC

GOVERNING SYSTEM

Loadshare Module

I	GOVEL21	LOAD SHARE GOVERNOR 0 Installed in EMCP 4.2 CANNOT BE USED WITH: 412GE58, 412GE59 or 412GE60		\$580
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PROACT GOVERNOR

I	CSPGM01	PROGRAMMER. 0 Shipped loose. Required to program ProAct II governor. ONLY FOR USE WITH: 412GE58, 412GE59 or 412GE60		\$985
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LUBE SYSTEM

Sump Pump

I	OPAMSP2	MANUAL SUMP PUMP 0		\$615
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SPECIAL TESTS/REPORTS

Special Tests/Reports

Must be ordered prior to factory Start-on-line Date.
 Factory Witness Test - consult factory.

I	TRSGEN2	PGS TEST REPORT @ 1.0 PF. 0		\$324 NET
I	TRSGEN7	PGS TEST REPORT @ 0.8 PF. 0		\$324 NET
I	TRSGEN1	GENERATOR TEST REPORT 0		\$324 NET

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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SPECIAL PACKING/INSPECTIONS FOR SHIPMENT

Export Boxing

I	EXB0019	DOMESTIC BOX PACK FOR EXPORT	0	\$1,182 NET
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Special Packing for Shipping

I	DPX0001	DOMESTIC PACK-EXPORT CONTAINER. ONLY FOR USE WITH: Engines not boxed.	0	NC
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NOTE: CONTAINER SHIPMENTS - Charge per container will be included in freight forwarding invoice.
 40 ft. open top container -- \$675.
 40 ft. enclosed container -- \$540.
 20 ft. open top container -- \$450.
 20 ft. enclosed container -- \$360.

I	SWP0022	SHRINK WRAP PROTECTION Plastic shrink wrap provides approximately one year external protection from moisture, sun and wind under transport and storage conditions. If package is to be stored outside for an extended period of time, consider also specifying Storage Preservation.	0	\$202 NET
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Storage Preservation

Provides glycol solution in cooling system and vapor corrosion inhibitor in internal engine compartments. Protects engine and accessories from functional deterioration for a minimum of one year under outside storage conditions.

I	SRP0017	STORAGE PRESERVATION.	0	\$444 NET
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Inspection Charges

Caterpillar miscellaneous handling charges for customer requested inspection by a private agency for inspection of engines, generators, transmissions and miscellaneous material. Includes visual inspection before boxing. No special test involved. Import license number must be supplied to factory prior to inspection.
 NOTE: Available only for generator sets manufactured at Griffin.

I	MISCHC1	SGS INSPECTION S.G.S. inspection covers all contents of a given order.	0	\$432 NET
I	MISCHC2	MISCELLANEOUS INSPECTION. All other inspection agencies. Specify agency name, address, contact, and phone number.	0	\$432 NET

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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STARTING/CHARGING SYSTEM

Battery Chargers

24 volt DC output. Installed on package.
 Not warranted or serviced by Caterpillar Inc.
 For use with lead acid batteries.
 All battery chargers require Contactor - AC CNTCT01.

I	BTC0503	BATTERY CHARGER 5 AMP (Non-UL) 0 TECHNICAL: 220-240 VAC input.		\$462
I	BTC1001	BATTERY CHARGER 10 AMP 0 TECHNICAL: 220-240 VAC input.		\$1,086
I	BTC0505	BATTERY CHARGER 5 AMP (UL) 0 TECHNICAL: 105-128 VAC 50 or 60 Hz input.		\$833
I	BTC1036	BATTERY CHARGER-10 AMP 0 Includes: high voltage, low voltage and AC failure alarm Outputs, DC Ammeter and Voltmeter. Meets requirements of NFPA 99 and 110. TECHNICAL: For 120-208-240 VAC input. Regulated. 2-Rate charging with automatic switching from equalize to float.		\$1,250
I	BAT2416	OVERSIZE BATTERY 0 TECHNICAL: Removes standard 1000 CCA (140 Amp-Hr.) batteries and provides 1300 CCA (190 Amp-Hr.) batteries (2-12 VDC batteries).		\$661

GENERAL

General

I	AIDEMB	US AID EMBLEM 0 Provides emblem to indicate the Agency for International Development (AID) financing is involved. AID provides economic assistance to advance U.S. economic and political interests in countries located in Africa, Asia, Latin America, Central and Eastern Europe, and the New Independent States of the former Soviet Union. Only available for U.S. built products. Requires one emblem for each side of the engine.		NC
I	SPECPNT	SPECIAL PAINT 0 Colors (other than Caterpillar yellow) or high performance paints.		\$139 NET

Tool Set

Tool set. Contains basic tools for regular maintenance; such as wrenches, grease gun, feeler gauges, etc. For a complete breakdown refer to the Tool Guide for Caterpillar Dealers.
 Order 9S-7977.
 AVAILABLE ONLY FROM PARTS DISTRIBUTION

Digital Diagnostic Tool

Digital diagnostic tool. Required to set engine timing for EIS engines.
 Requires service program module NEXG4529 to make operational.
 Order 7X-1400.
 AVAILABLE ONLY FROM PARTS DISTRIBUTION.

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
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LITERATURE***Kit, Serialized Technical Media***

Includes Operation & Maintenance manual (in language of choice), parts book on Compact Disc (English only) and other required technical documents. One group shipped free of charge with each engine. Any additional media or translations not included in the literature kit, should be ordered through the CSS Media Online Ordering Site (<https://oos.midlandcorp.com/CAT/Default.aspx>)