GAS PKG. GEN SET (I) LAFAYETTE, INDIANA

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\*.

#### 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 individual Cat dealers please use Engine Order Management Process (EOMP) quoting and order tools like ISA or PSQ. For questions or

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA

Ship Weight Ibs List Price At Factory

### DEALER SPECIFIC PRICING TERMS (CONT.)

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.

#### GENERAL INFORMATION

**Engine** 

Low Emissions Engine

"C" Series electronics

Caterpillar Gas Engine Control Module (ECM)

(Based upon ADEM III Module)

Features include:

Fuel/air ratio control

Start/stop logic:

Gas purge cycle

Staged shutdown

Engine Protection Systems:\*

**Detonation Sensitive Timing** 

High exhaust temperature

High jacket water temperature

Low oil pressure

Failure to start (overcrank)

Overspeed

High oil temperature

Emergency stop

\*For a complete listing, check sales technical

or service literature

Governor (see Governor below)

Transient richening and Turbo bypass control

Ignition (see Ignition below)

#### **AIR INLET SYSTEM**

Air cleaner, two-element single-stage air cleaner with enclosure, service indicator (shipped loose)

Does not include any enclosure mounting brackets or piping from air cleaner to turbo(s).

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA

Ship Weight lbs

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### **CONTROL SYSTEM**

Low voltage and medium voltage packages contain a package mounted EMCP II+ controller that includes:

Mandatory Option-choice of 2E or 3E transducer (shipped loose)

Customer-supplied wiring is needed to connect the kW transducer.

24-volt DC control.

NEMA12, IP44 dust-proof enclosure:

Lockable hinged door.

Generator terminal box (mounted rear facing).

Single-location customer connection.

Panel illuminating lights.

Auto start/stop control switch.

Voltage adjustment potentiometer.

True RMS AC metering, 3 phase.

Purge cycle and staged shutdown logic.

Digital indication for:

Rpm.

Operating hours.

Oil pressure.

Coolant temperature.

DC volts.

L-L volts, L-N volts, phase amps, Hz,

ekW, kVA, kVAR, kWhr, %kW, PF.

Engine initiated shutdowns with discreet codes displayed for:

Low oil pressure.

High coolant temperature.

Overspeed.

Emergency stop.

Failure to start (overcrank).

High oil temperature (for a complete listing, check technical sales or service literature).

Programmable protective relaying functions:

Under and over voltage.

Under and over frequency.

Reverse power.

Over current (phase and total).

3 spare indicator LEDs (programmable).

4 spare alarm/shutdown inputs.

High voltage packages contain a wall mount EMCP4.3 controller that includes:

24-volt DC operation Environmental sealed front face Text alarm/event descriptions Kilowatt transducer output

Controls:

Speed/ Voltage adjust Auto/start/stop control Alarm acknowledge

Emergency stop pushbutton

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA Ship Weight lbs

List Price At Factory

### **CONTROL SYSTEM (CONT.)**

Customer Warning/Shutdown Lamp test True RMS AC metering, 3-phase, +/-2% accuracy Remote monitoring and Control capability

Warning/shutdown with common LED indication of shutdowns with indicating lights for:
Low oil pressure
High/Low coolant temperature
High engine oil temp
Low, High and weak battery voltage
Overspeed
Failure to start (Overcrank)
Emergency stop
Loss of sensing
Air filter restriction
Impending shutdown

Digital indication for: RPM

DC volts Operating hours

Oil pressure (psi, kPa or bar)
Volts (L-L & L-N), frequency (Hz)
Amps (per phase & average)
Two (2) dedicated digital inputs
Twelve (12) Programmable digital inputs
Two (2) dedicated digital outputs

Sixteen (16) programmable digital outputs

#### Environmental:

Control module operating temperature:-40C to 70C Display operating temperature: - 20C to 70C Humidity: 100% condensing 30C to 60C Storage temperature: -40C to 85C

Vibration: Random profile, 24-1000Hz, 6.0G rms

Generator protection:
Generator phase sequence
Over/Under voltage
Over/ Under frequency
Reverse power(kW)
Over current
Current balance
Over/Loss of Excitation
Generator temperature detectors

The Quick Starting Guide will be provided with the package documentation. Additional copies may be ordered through

Media Logistics by calling +1 (800) 566-7782 or +1 (309) 266-0942. The quick starting guide media number for Cat Generator Sets is LEXE0187-00. The Quick starting guide is also available by accessing the Electronic Media Center at https://emc.cat.com and on Power Net at https://engines.cat.com, select Electric

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA Ship Weight lbs

List Price At Factory

### **CONTROL SYSTEM (CONT.)**

Power then select References/Sales Tools.

#### **COOLING SYSTEM**

See TMI for heat rejection date and pump performances.

Units WITH engine driven pumps:

- JW and SCAC engine-driven pumps and bypass lines.
- JW and SCAC thermostats.
- Flange connections: JW inlet ANSI 6 in/DN150, JW outlet Cat 2nd stage SCAC Cat flanges.

Units WITHOUT engine driven pumps: 516GE5Q and 516GE5S

- No JW and SCAC engine-driven pumps or bypass lines.
- JW thermostat and housing included.
- No SCAC thermostats.
- Flange connections; JW inlet and outlet Cat Flange.

### **EXHAUST SYSTEM**

Dry exhaust manifold CAT flanged faced outlets Integrated Sensing Module (ISM):

Provides exhaust port temperatures and stack temperature to

customer supplied screen via CCM.

#### **FUEL SYSTEM**

FUEL FILTER IS REQUIRED: Customer may provide or see Optional Fuel Filters.

Sized for 31.5 to 47.2 MJ/Nm3 (800 to 1200 btu/cu ft) dry pipeline natural gas.

Engine installed electronic fuel metering valve.

Throttle plate, electronically controlled by ECM, 24V DC actuator.

Not included as standard but required - gas shutoff valve (24V DC energized-to-run (ETR) and gas regulator; customer to supply 3.5-34.5 kPa (0.5 to 5 psi) gas pressure to engine fuel control valve.

Cat flange connection.

#### GENERATORS AND GENERATOR ATTACHMENTS

Generator

SR4B

3-phase brushless, salient pole

Permanent magnet excited

6 lead

Caterpillar's Digital Voltage Regulator (CDVR)

3 phase sensing, includes KVARIPF control

Class H insulation;

Class F temperature rise @ 40 C (105 C Cont)

Reactive droop

Bus bar connections

Winding temperature detectors

Anti-condensation space heaters

### **GOVERNING SYSTEM**

Electronic speed governor with 4 to 20 ma (OV to 5V) input (governor is part of GECM)

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA

Ship Weight lbs

List Price At Factory

### **GOVERNING SYSTEM (CONT.)**

Provides transient richening and turbo bypass control EMCP II on customer's load signal (OV to 5V) is needed to operate these controls.

Electronically controlled 24V DC actuator to throttle shaft

#### **IGNITION SYSTEM**

Electronic Ignition System (control by ECM) Individual cylinder Detonation Sensitive Timing (DST)

#### **LITERATURE**

English

#### **LUBE SYSTEM**

Lubricating oil option.
Gear type lube oil pump
Oil filter, filler, and dipstick
Integral lube oil cooler
Oil drain valve
Crankcase breather

#### MOUNTING SYSTEM

330 mm structural steel rails Spring-type anti-vibration mounts (shipped loose)

#### STARTING/CHARGING SYSTEM

JACKET WATER HEATER IS REQUIRED:
Customer can provide or see Jacket water heater options in the Starting/Charging System section
24-volt starting motor(s)
Battery with rack and cables (shipped loose)
Battery disconnect switch

### **GENERAL**

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

Paint; Caterpillar Yellow except rails & radiators are Gloss Black RH service

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA Ship Weight lbs

List Price At Factory

50 HERTZ, 1500 RPM, 3 PHASE, 400/230 VOLT, PM EXCITED

	PKG. GEN SI AYETTE, INDI		Ship Weight Ibs	List Price At Factory
I	516GE5Q	1500RPM PKG JW-99C 5Q	- 2 PS. G ORDERS	\$778,082
I	516GE5X	1500RPM PKG JW-99C 5X	2. Sing orders	\$790,645
1	516GE5Y	G3516C 1500RPM PKG JW-99C 5Y	- 2. -	\$806,965
50 H 11,0	HERTZ, 1500 000(WYE) V	O RPM, 3 PHASE, 10,000(WYE), 10,500(WYE) or OLT, PM EXCITED		
I	516GE5S	G3516 HV 1500 RPM PKG JW-99C	- 2 PS. G ORDERS	\$831,034
I	516GE5T	1500 RPM PKG JW-99C	2. Sing orders	\$843,601

GAS PKG. GEN SET (I) LAFAYETTE, INDIANA Ship Weight lbs		Ship Weight Ibs	List Price At Factory			
1	516GE5V	1500 RPM PKG JW-99C	= 2.	\$859,916		
60 H	60 HERTZ, 1800 RPM, 3 PHASE, 480 VOLT, PM EXCITED					
I	516GE5Z	480V 1800RPM PKG JW-99C 5Z	C. = 2. FING ORDERS	\$814,222		
60 H 13,8	HERTZ; 1800 800(WYE) V	O RPM; 3 PHASE; 12,400(WYE), 13,200(WYE) OR OLT; PM EXCITED				
I	516GE5U	1800 RPM PKG JW-99C	C. = 2. TING ORDERS	\$885,711		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight	List Price
USE	NO.		IDS	At Factory

### **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	50H0380	<b>380V, Wye Connection, 50Hz</b>	NC
I	50H0400	400V, WYE CONNECTION, 50HZ	NC
I	50H0415	415V, WYE CONNECTION, 50HZ	NC
I	50H3300	VOLTAGE INDICATOR 3300V (WYE)	NC
I	50H6300	VOLTAGE INDICATOR 6300V (WYE)	NC
I	50H6600	VOLTAGE INDICATOR 6600V (WYE)	NC
I	50H6900	VOLTAGE INDICATOR 6900V (WYE)	NC
I	50H10K0	VOLTAGE INDICATOR 10000V (WYE)	NC
ı	50H10K5	VOLTAGE INDICATOR 10500V (WYE)	NC
I	50H11K0	VOLTAGE INDICATOR 11000V (WYE)	NC
	60 Hortz Vol	tage Indicators	
	oo nenz voi	lage mulcators	
ı	60H0480	<b>480V, Wye Connection, 60Hz</b>	NC
		480V, Wye Connection, 60Hz	NC NC
	60H0480	480V, Wye Connection, 60Hz	
1	60H0480 60H2400	480V, Wye Connection, 60Hz	NC
1 1	60H0480 60H2400 60H4160	480V, Wye Connection, 60Hz 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 2400 VOLT 0 TECHNICAL: Delta connection. REQUIRES: SR4B 4160 volt wye generator. Delta connection or Custom Quote.  VOLTAGE INDICATOR 4160V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6300V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.	NC NC
1 1 1	60H0480 60H2400 60H4160 60H6300	480V, Wye Connection, 60Hz 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 2400 VOLT 0 TECHNICAL: Delta connection. REQUIRES: SR4B 4160 volt wye generator. Delta connection or Custom Quote.  VOLTAGE INDICATOR 4160V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6300V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6900V (Wye) 0 TECHNICAL: Wye connection.	NC NC
1 1 1 1 1 1	60H0480 60H2400 60H4160 60H6300 60H6600 60H6900 60H12K4	480V, Wye Connection, 60Hz 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 2400 VOLT 0 TECHNICAL: Delta connection. REQUIRES: SR4B 4160 volt wye generator. Delta connection or Custom Quote.  VOLTAGE INDICATOR 4160V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6300V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6900V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 12470V (Wye) 0 TECHNICAL: Wye connection.	NC NC NC NC NC
1 1 1 1 1	60H0480 60H2400 60H4160 60H6300 60H6600 60H6900	480V, Wye Connection, 60Hz 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 2400 VOLT 0 TECHNICAL: Delta connection. REQUIRES: SR4B 4160 volt wye generator. Delta connection or Custom Quote.  VOLTAGE INDICATOR 4160V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6300V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6600V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6900V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 6900V (Wye) 0 TECHNICAL: Wye connection.  VOLTAGE INDICATOR 12470V (Wye) 0	NC NC NC NC

USE	REF NO.	MANDATORY ATTACHMENTS  Ship Weight lbs	List Price At Factory
VOL1	TAGE INDIC	CATORS (CONT.)	
S	pecial Volta	ge Indicator	
I	VLTIND1	VOLTAGE INDICATOR - SPECIAL	NC
CERT	TIFICATION	S	
	<b>RID CODE</b> (Select One	COMPLIANCE	
I	GDCDNRE	Opynamic 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 not currently available, and you anticipate quoting Electric Power Gas genset products from the price list of a US source facility, please contact the ASC for assistance. By working with the ASC, we can evaluate the project requirements and quote products that will meet specific electrical network codes.	NC
I	GDCDGER	GERMANY GRID CODE COMPLIANCE	\$1,121 NE
APPL	ICATION IN	NDICATORS	
	<b>pplication li</b> Provides power applications.	ndicators r setting and name plate for use in specified	
I	CONTINU	CONTINUOUS POWER APPLICATION	NC
0	peration Inc	dicators	
I	PARGRID	PARALLEL-TO-GRID MODE	NC

Ship Weight List Price MANDATORY ATTACHMENTS USF NO. lbs At Factory

### **APPLICATION INDICATORS (CONT.)**

### Operation Indicators (Cont.)

I **ISLMODE** NC

TECHNICAL: Primary application is: 1) stand-alone without any connection to the utility grid; 2) parallel with other units not connected to the utility grid; 3) connected to a small utility grid which can experience frequency and voltage changes; OR 4) paralleled to grid, but when grid is "down", the gen set must operate stand-alone with minimum freg/voltage variation. If available, this option provides additional sensors, controls and software to permit improved transinet operation. Check the appropriate Sales Spec Sheet (if no form number here, Island Mode is not available yet) on the PowerNet for detailed transient information. Caution: Gas engine gen sets cannot accept transient conditions equal to a diesel gen set or a large utility grid. It is the dealer's responsibility to be sure the customers' needs are matched to this

product's capability.

### Market Segmentation

ı **MSEPGGS** NC

generation of electrical power and or combined heat and power applications including cogen, trigen, and guadgen. 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.

**MSPMDXQ** NC

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 EPG, Locomotive EPG, or Marine Aux applications.

**MSPETDR** NC

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.

USE	REF NO.	MANDATORY ATTACHMENTS  Ship Weight lbs	List Price At Factory
APP	LICATION IN	IDICATORS (CONT.)	
Λ	Narket Segm	entation (Cont.)	
I	MSPETPG	PETRO LAND PROD/PUMPING	NC
I	MSPETOD	PETRO OFFSHORE DRILLING	NC
DISF	PLAY UNITS		
E		ne following. Provides control panel and n displays in specified units.	
I	EMCENGU	ENGLISH DISPLAY UNITS	NC
I	EMCMETU	METRIC DISPLAY UNITS	NC
ENG	INE RATING	AND SPEED	
E		g and Speed  ne following ratings. Provides power settings of for use in specified application.	
I	PSTSPCL	SPECIAL SETTING REQUEST	NC
5	50 Hertz @ 1	1500 rpm	
I	KVA1988	<b>1988 KVA W/O FAN</b>	NC
I	KVA1944	ONLY FOR USE WITH: 50 Hz  1944 KVA W/O FAN	NC
6	60 Hertz @ 1	1800 rpm	
ı	KWW1650	<b>1650 KW W/O FAN</b>	NC
I	KWW1660	ONLY FOR USE WITH: 60 Hz high voltage.  1660 KW W/O FAN	NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
MAN	IDATORY A	TTACHMENTS		
In	TECHNICAL: F	Wiring Harnesses for High Voltage Units rom ECM to EMCP 4.3 wall mount remote panel. Customer m three various lengths below. Choose one:		
I	HRNCN05	8 M HARNESS	narness	\$609
I	HRNCN01	15 M HARNESS	harness	\$980
I	HRNCN03	23 M HARNESS	harness	\$1,046

### FOR 50 Hz G3516C Island Mode

Kilowatt Transducer (KWT) Mandatory Options

Dealer must select a kW transducer option from below that is compatible with the current and potential transformers intended for use. Customer must supply  $\dot{\text{CTs}}$  and PTs for input and power to kW transducer. See A&I guide for sizing details.

### MANDATORY OPTION (Choose one of the following):

ı	KWTRD09	KW TRANSDUCER	\$2,064
		TECHNICAL: Ship loose kW transducer. 50 Hz 3 phase, 3 wire	
		(2 element) connection. PT secondary voltage range of	
		85-135 VAC; CT input range 0-5A. Mount isolated from	
		vibration.	
		Full output voltage = 10V.	
		Full-scale Watts = 1000W.	
		REQUIRES: 50 Hz auxiliary ECM (Island Mode) genset.	
		ONLY FOR USE WITH: All voltages other than high voltage. Choose between	
		KWTRDÖ9 or KWTRD04.	
I	KWTRD04	KW TRANSDUCER	\$2,283
		TECHNICAL: Ship loose kW transducer. 50 Hz 3 phase, 4 wire	
		(3 element) connection. PT secondary voltage range of	
		85-135 VAC, CT input range 0-5A. Mount isolated from	
		vibration.	
		Full output voltage = 5V.	
		Full-scale Watts = 1500W.	
		REQUIRES: 50 Hz auxiliary ECM (Island Mode) genset.	
		ONLY FOR USE WITH: All voltages other than high voltage. Choose between	
		KWTRDÖ9 or KWTRD04.	

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

### **Emissions Level**

Select one.

50	Hertz

	30 nertz			
ı	EMISS09	OPTIONAL LOW EMISSIONS - 50 HZ	. 0	NC
ı	EMISS10	OPTIONAL LOW EMISSIONS - 50 HZ TECHNICAL: 1/2 TA Luft (250mg/nm3 NOx) 0.6g/bhp hr	. 0	NC
	60 Hertz			
ı	EMISS11	OPTIONAL EMISSIONS - 60 Hz	0	NC
I	EMISS12	STANDARD EMISSIONS - 60 Hz TECHNICAL: 1 g/bhp hr NOx.	0	NC
	Jacket Water	Outlet Temperature		
I	JWTEMP2	99C OUTLET JW TEMPERATURE	0	NC
	SCAC Outlet Select one.	Temperature		
I	ACTEMPN	94C/54C SCAC TEMPERATURE	0	NC
C	OOLING SYSTI	EM		
	Cooling Syste Select One.	ems Connections		
ı	CLIO1RH	OUTLET CONNECTION/JW	0	NC
I	CLIO1LH	OUTLET CONNECTION/JW	0	NC
	Connection F Select One.	langes		
I	ADPFLG1	STANDARD CAT FLANGE	0	\$296
I	ADPFLG2	Cooling System Connections  ANSI/DIN ADAPTER FLANGE	0	\$1,202

For the Cooling System Connections.

\$271 NET

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory				
EUROF	EUROPEAN CERTIFICATIONS							
Eur	European Union Certifications							

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 JWH0022.

NOTE: Not for use with Hazardous Location engines.

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.

#### LANGUAGE OPTIONS

**EUDGDOI** 

### 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.

LANGUAGE MARKINGO ENGLIGI

I	LANENGO	LANGUAGE MARKINGS-ENGLISH 0	NC
I	LANFREO	LANGUAGE MARKINGS-FRENCH	NC
I	LANPORO	LANGUAGE MARKINGS-PORTUGESE	NC
I	LANSPAO	LANGUAGE MARKINGS-SPANISH 0	NC
I	LANDUTO	LANGUAGE MARKINGS-DUTCH	NC
I	LANDANO	LANGUAGE MARKINGS-DANISH	NC
1	LANGERO	LANGUAGE MARKINGS-GERMAN 0	NC
I	LANITAO	LANGUAGE MARKINGS-ITALIAN	NC
I	LANRUSO	LANGUAGE MARKINGS-RUSSIA 0	NC

USE	REF NO.	MANDATORY ATTACHMENTS  Ship Weight lbs	List Price At Factory
LAN	GUAGE OP	TIONS (CONT.)	
L	anguage Op	otions - select ONE. (Cont.)	
I	LANTURO	LANGUAGE MARKINGS-TURKISH 0	NC
LUBI	E SYSTEM		
	ubricating C	Dil	
ı	LUBOILU	LUBRICATING OIL	\$2,359
I	NOLUB01	NO LUBRICATING OIL DESIRED	NC
P	<b>Prelube Pum</b> Continuous	ps	
I	ELEPAC7	ELECTRIC PRELUBE PUMP AC	\$2,557
I	ELEPP11	source.  ELECTRIC PRELUBE PUMP AC	\$4,663
I	ELEPP12	PRELUBE PUMP AC	\$4,663
I	NOPLPMP	<b>NO PRELUBE PUMP</b>	\$31
MAN	IDATORY O	PTIONS	
Λ		Options NSPS Emission Rule Park Ignitied) Stationary NSPS (New Source Performance ulations:	
	New Source Poperating in the January 1, 200 below 500 bhraincluding landf will apply to al	2007, the US EPA will enforce the new Spark Ignited erformance Standard (SI NSPS) for gas stationary engines le United States equal to or above 500 bhp. Effective 08 this standard will apply to all gas engines rated poor. This rule will affect all continuous applications fill and ag biogas. Effective Jan 1, 2009 this rule less than 1, 2009 this rule less than 2007. Media Number LEXE7149.	
I	NSPSNUS	NON-U.S. GENSET	NC

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

### **MANDATORY OPTIONS (CONT.)**

### Mandatory Options -- NSPS Emission Rule (Cont.)

Application - gas generator sets to be used in continuous power applications in the United States (all gasses including digester, landfill and ag bio-gas).

These gas products are not certified, but can be made field compliant through on-site emissions testing. It is the customer's responsibility to coordinate and complete site emissions testing and submit for an EPA certificate of compliance. Some products may require an air/fuel ratio-control and a 3-way catalyst (Note: For rich burn products the catalyst rating must be used). Some low emission products might need an oxidation catalyst to meet CO2 or VOC limits (Note: Catalysts cannot be used with corrosive fuels such as digester, landfill and ag bio-gas).

#### **EXTENDED SERVICE COVERAGE**

### ESC (Extended Service Coverage)

New procedures must be followed to purchase ESC with the gensets offered in this price list. The new procedures are:

Complete the ESC Special Quote Request Form found at dealer.cat.com/EPESC. Please submit the completed form to engineesc@cat.com.

Contact engineesc@cat.com if you have any questions.

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
AIR I	NLET SYST	ГЕМ		
A	ir Cleaners			
I	ACLDE02	AIR CLEANER - DUAL ELEMENT	0	\$5,025
I	ACLDE03	Shipped loose in housing.  AIR CLEANER - DUAL ELEMENT	0	\$6,488
I	ACLMNT1	Shipped loose as one unit.  AIR CLEANER MOUNTING	0 vertical	\$4,203
I	ACLMNT2	CANNOT BE USED WITH: Air cleaners with precleaner.  AIR CLEANER MOUNTING	0	\$5,860
A	ir Cleaner F	Removal		
I	ACLRM06	AIR CLEANER REMOVAL	0	\$-4,643
CIRC	UIT BREAK	ERS		
3	Pole UL 48	39 Listed		
	Circuit Bre	eaker with Shunt Trip and Auxiliary Contacts.		
I	CBK0033	CIRCUIT BKR W/ST 1200 A	0	\$4,052
I	CBK0035	TECHNICAL: 80% Rated. CIRCUIT BKR W/ST 1600 A	0	\$7,193
I	CBK0037	TECHNICAL: 80% Rated w/Auxiliary contacts.  CIRCUIT BKR W/ST 2000 A  TECHNICAL: 80% Rated w/Auxiliary contacts.	0	\$7,545
3	Pole IEC 9	47-2 Rated		
	Circuit Bre	eaker with Shunt Trip and Auxiliary Contacts.		
I	CBK0039	CIRCUIT BKR W/ST 2500 A	0	\$9,372
I	CBK0041	CIRCUIT BKR W/ST 3200 A	0	\$11,965

TROL PANE DCAI Alarm I EMCAM03 EMCAM06		n be switches. e provided ng an easy d in EMCP II	\$615
EMCAM03	CUSTOM ALARM MODULE - 8 LIGHTS  TECHNICAL: Provides 4 red and 4 amber LEDs which can individually controlled by customer provided without alarm horn.  Polycarbonate labels of typical functions are along with mounting template, thus providin to customize alarm module. Will be mounted along with selected alarm module.  REQUIRES: Low or medium voltage generator.  ONLY FOR USE WITH: Other alarm modules.  CANNOT BE USED WITH: Synchronizing module EMCSM  ALARM MODULE - NFPA99	n be switches. e provided ng an easy d in EMCP II	\$615
	TECHNICAL: Provides 4 red and 4 amber LEDs which can individually controlled by customer provided without alarm horn. Polycarbonate labels of typical functions are along with mounting template, thus providin to customize alarm module. Will be mounted along with selected alarm module.  REQUIRES: Low or medium voltage generator. ONLY FOR USE WITH: Other alarm modules. CANNOT BE USED WITH: Synchronizing module EMCSM ALARM MODULE - NFPA99	n be switches. e provided ng an easy d in EMCP II	\$615
EMCAM06	ALARM MODULE - NFPA99		
	coolant temperature alarm, low coolant tem low oil pressure alarm, low DC volts alarm, automatic. Two spare LEDs for customer so No other contactors needed. This panel mee of NFPA 99.	ate: high perature alarm, system not in witch inputs.	\$929
EMCAM07	REQUIRES: Low or medium voltage generator.  ALARM MODULE - NFPA110	ate: t temperature alarm, which el level, damper	\$1,090
emote Annu Shipped loose.	inciator Modules (RAM)		
EMCAM04	REM 8-LIGHT CUSTOM ANNUNC	as a remote and 4 amber y customer typical template, annunciator x 12 x 4 in)	\$914
EMCAM05	module. Flush mount kit is included.  REM 16-LIGHT CUSTOM ANNUNC	as a d 8 red y controlled ate labels of ounting ize remote 102 mm uitable for	\$1,476

USE	REF NO.	OPTIONAL ATTACHMENTS  Ship We lbs	ight List Price At Factory
CONT	TROL PANE	ELS (CONT.)	
Re	emote Annu	unciator Modules (RAM) (Cont.)	
I	EMCRMP1	REM 8-LIGHT ANNUNCIATOR	es ·
I	EMCRMP3	REM 16-LIGHT NFPA99 ANNUNC  Shipped loose.  TECHNICAL: 24 volts DC, 16 lights. Remote mounted.  Combines alarm module with same function as EMCRMF and custom alarm module to provide a total of 16 LEDs in a single remote annunciator. Provides flashing LEDs and horn to annunciate: low coolant temperature alarm, high coolant temperature shutdown, low oil pressure shutdown, overcrank, overspeed shutdown. The following require customer-provided switches: generator on load, battery charger malfunction, and 4 red and 4 amber LED which can be individually controlled by customer-provided switches. Polycarbonate labels of typical functions are provided along with mounting template, thus providing an easy-to-customize alarm module. Includes 254x305x102 mm (10x12x4 in) steel box and cover suitable for mounting two modules. Flush mount kit is included.	ng
Pa	anel Options	s	
I	EMCSM01	SYNCHRONIZING MODULE	.0 \$626
I	EMCEFR1	CANNOT BE USED WITH: High voltage.  ENGINE FAILURE RELAY	
Cı	ustomer Ma	anagement Device	
I	CMOD003	COMMUNICATIONS MODULE-PL1000T	.0 \$1,554

USE	REF NO.	OPTIONAL ATTACHMENTS  Ship Weight lbs	List Price At Factory
CON	TROL PANE	ELS (CONT.)	
C	ustomer Ma	anagement Device (Cont.)	
I	CMOD006	COMMUNICATIONS MODULE-PL1000E	
COOI	LING SYST	ЕМ	
A	ftercooler C	Cores	
I	AFTCL16	AFTERCOOLER AIR LINES	\$5,225 up
I	AFTCL17	to 20 ppm.  AFTERCOOLER AIR LINES	\$5,385
EXH <i>A</i>	AUST SYST	EM	
El	bow		
	EXCEL09	EXHAUST ELBOW KIT	\$1,130
	EXCEL13	Shipped loose.  ELBOW - 406 MM (16 IN)	\$1,965
FI	anges		
I	EXCFE06	FLANGE AND EXHAUST EXPANDER	\$2,611

USE	REF NO.	OPTIONAL ATTACHMENTS Shi	p Weight lbs	List Price At Factory
EXHA	AUST SYST	TEM (CONT.)		
Fla	anges (Co	nt.)		
I	EXCFL08	14 IN FLANGE KIT	0	\$352
I	EXCFL10	FLANGE - 406 MM (16 IN)  Shipped loose. TECHNICAL: Two oversizes of turbo outlet.	0	\$786
Fle	exible Fittir	ngs		
I	EXCFF15	FLEXIBLE FITTING	0	\$1,275
M	ufflers			
I	MUF0030	MUFFLER - 15 dBA Attenuation	0	\$5,495
I	MUFIN15	MUFFLER - 18 dBA Attenuation	0	\$7,325
I	MUFIN16	MUFFLER - 25 dBA Attenuation	0	\$9,058
I	MUFSA01	16" MUFFLER - SPARK ARRESTING	0	\$5,038

### **FUEL SYSTEM**

### Fuel System

If optional fuel filter is not selected, customer must provide. Fuel system components are sized to supply fuel to a single generator set. Use of single system components for multiple units may result in adequate fuel flow. For design and sizing guidelines refer to Gaseous Fuel Systems A&I Guide.

ISE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
UEL	SYSTEM	(CONT.)		
Fι	ıel Filter			
	FULFL14	FUEL FILTER	n of engine  0.3 n working signed ufactured	\$9,431
	FULFL13	GAS FILTER	n of flow. ith one ter PED ecommended for use with	\$3,298
G	as Shutoff	Valve		
	SOV2403	GAS SHUTOFF VALVE		\$562
	<b>egulator</b> Shipped loose			
	FSREG02	GAS KNOCKDOWN REGULATOR	max inlet gas	\$1,218
IIGH	VOLT GE	NERATORS & ATTACHMENTS		
	One CT install ANSI Class: T Used for cross Refer to "FULI CT RATIO" Ta	nt Compensation Current Transformers (CCCT), ed on Phase B lead in generator terminal box. 200, Knee Point: 135 V, Error @ 25 VA: 0.14%. current compensation for parallel operation.  LOAD AMPERES AT 0.8 POWER FACTOR AND RECOMMEND to the rating section for recommended CT ratio. Frame Generator - 10000/10500/11000 Volts 50 Hz.		
	CCT1510	CCCT, 100:5 RATIO	0	\$1,745
	CCT1511	TECHNICAL: FLA Range 76-100. CCCT, 150:5 RATIO	0	\$1,745

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
HIG	H VOLT GEN	NERATORS & ATTACHMENTS (CONT.)		
	One CT install ANSI Class: T Used for cross Refer to "FULL CT RATIO", Ta	nt Compensation Current Transformers (CCCT), ed on Phase B lead in generator terminal box. 100, Knee Point: 100 V, Error @ 25 VA: 0.18%. c current compensation for parallel operation. LOAD AMPERES AT 0.8 POWER FACTORY AND RECOMMENTABLE in the rating section for recommended CT ratio. Frame Generator; 6300/6600/6900 Volts 50 Hz.		
ı	CCT8709	CCCT, 200:5 RATIO	0	\$1,423
1	CCT8710	TECHNICAL: FLA Range 151-200.  CCCT, 300:5 RATIO	0	\$1,423
	Three sets of terminal box a ANSI Class: Toused for differ Refer to "FULL CT RATIO" Ta	Current Transformers (DCT), 15 kV Class two Cts, one of each set installed in generator nd one shipped loose for customer installation. 200, Knee Point: 135 V, Error @25 VA: 0.14%. Tential protection. LOAD AMPERES AT 0.8 POWER FACTOR AND RECOMMENT ble in the rating section for recommended CT ratio. O frame generator - 10000/10500/11000 50 Hz.	DED	
I	DCT1510	DIFF CURR TRANS, 100:5 RATIO TECHNICAL: FLA Range 76-100	0	\$9,115
1	DCT1511	DIFF CURR TRANS, 150:5 RATIO TECHNICAL: FLA Range 101-150	0	\$9,115
	Three sets of terminal box a ANSI Class: Tused for differ Refer to "FULL CT RATIO" Ta	Current Transformers (DCT), 8.7 kV Class two Cts, one of each set installed in generator nd one shipped loose for customer installation. 100, Knee Point: 100 V, Error @25 VA: 0.18%. rential protection. LOAD AMPERES AT 0.8 POWER FACTOR AND RECOMMENT ble in the rating section for recommended CT ratio. of frame generator; 6300/6600/6900 Volts 50 Hz.	DED	
ı	DCT8709	DIFF CURR TRANS, 200:5 RATIO	0	\$7,106
I	DCT8710	TECHNICAL: FLA Range 151-200  DIFF CURR TRANS 300:5 RATIO	0	\$7,106
	Shipped loose. Identical to ins class. One trai ANSI Class: T Refer to "FULL CT RATIO" Ta	stalled CCCT or DCT having same ratio and voltage insformer shipped loose.  200, Knee Point: 135 V, Error @ 25 VA: 0.14 %.  LOAD AMPERES AT 0.8 POWER FACTOR AND RECOMMENTAL ble in the rating section for recommended CT ratio.  1 frame generator - 10000/10500/11000 Volts 50 Hz.	DED	
ı	CT15010	CURRENT TRANSF., 100:5 RATIO	0	\$1,322
I	CT15011	TECHNICAL: FLA Range 76-100  CURRENT TRANSF., 150:5 RATIO	0	\$1,322

USE	REF NO.	OPTIONAL ATTACHMENTS  Ship Weight lbs	List Price At Factory
HIG	H VOLT GEN	ERATORS & ATTACHMENTS (CONT.)	
	Shipped loose. Identical to inst class. One tran ANSI Class: T1 Refer to "FULL CT RATIO" Tab	alled CCCT or DCT having same ratio and voltage sformer shipped loose.  O0, Knee Point: 100 V, Error @ 25VA: 0.18%.  LOAD AMPERES AT 0.8 POWER FACTOR AND RECOMMENDED sle in the rating section for recommended CT ratio. frame generator; 6300/6600/6900 Volts 50 Hz.	
ı	CT87009	CURRENT TRANSF., 200:5 RATIO	\$965
I	CT87010	CURRENT TRANSF., 300:5 RATIO	\$965
	High Voltage	Generators, 6300V and Above	
I	OVRDG17	CDVR INSTALLED	NC
	annunciator is of annunciators if	Modules er a maximum of three remote annunciators if no local ordered. Can order a maximum of two remote one local annunciator is ordered. Can order one remote annunciator when two local annunciators	
I	EMCRAM5	PRE-PROGRAMMED	\$660 ,
I	EMCCAM6	CUSTOM	\$528 ,
I	EMCRAM6	with label kit shipped loose for customer installation.  1-PRE-PROGRAMMED & 1-CUSTOM	\$875
I	EMCRAM7	TECHNICAL: Provides two 16 point/32 light annunciators, mounted on package, with label kit shipped loose for customer installation.	\$935
	Other High V	oltage Options	
1	AUMCT04	AUTO MANUAL CONTROL MCV112	\$2,520

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory		
HIGH	IIGH VOLT GENERATORS & ATTACHMENTS (CONT.)					
0	ther High V	oltage Options (Cont.)				
I	GNDIFD3	DIODE FAULT DETECTOR	0	\$5,166		
I	SHKTHM1	THERMOSTAT FOR SPACE HEATER  TECHNICAL: For automatic control of space heater.  REQUIRES: 2600 frame generator.	0	\$264		
I	GNACL04	CLEANER GP-GEN AIR CLEANER	0	\$6,762		
I	CNVGP06	CONVERSION GP-6 LEAD,6 TERMINL		\$5,086		
I	CNVGP07	CONVERSION GP-LHSFEE	0	NC		
I	CNVGP08	CONVERSION GP-TOP CABLE ENTRY  TECHNICAL: As seen from exciter end. Replaces standard bottom cable entry.  REQUIRES: 2600 frame generator.	0	NC		
GENE	ERATORS A	AND GENERATOR ATTACHMENTS				

### OPTIONAL GENERATORS COMPATIBILITY TABLE

ALL OPTIONAL GENERATORS REQUIRE A GENERATOR REMOVAL.

### OVERSIZE GENERATORS--PREMIUM/PERMANENT MAGNET

### 50 HERTZ 1500 RPM, 415/400/380 VOLT

GENI	ERATOR	GENERATOR
FRAME	ORDER #	REMOVAL
828	OGNPMH8	RPA0232

### 50 HERTZ 1500 RPM, 3300 VOLT

	1 OVERSIZE		2 07	/ERSIZE	STD
	GENERATOR		GENI	ERATOR	GENERATOR
CONT.	FRAME	ORDER #	FRAME	ORDER #	REMOVAL
2000	827	OGNPMJ3	828	OGNPMJ4	RPA0232

USE REF NO. OPTIONAL ATTACHMENTS Ship Weight lbs List Price At Factory

# GENERATORS AND GENERATOR ATTACHMENTS (CONT.) 50 HERTZ 1500 RPM, 6600 VOLT

	1 OVERSIZE		STD
	GENERATOR		GENERATOR
CONT.	FRAME	ORDER #	REMOVAL
2000	2630	OGNHV86	RPA0233

### 50 HERTZ 1500 RPM, 11,000 VOLT

	1 OVERSIZ	E	STD
	GENERATOR		GENERATOR
CONT.	FRAME	ORDER #	REMOVAL
2000	826	OGNPMH9	RPA0233

### 60 HERTZ 1800 RPM, 480 VOLT

	1 OVERSIZE		70 2	/ERSIZE	STD
	GENERATOR		GENI	ERATOR	GENERATOR
CONT.	FRAME	ORDER #	FRAME	ORDER #	REMOVAL
1660	826	OGNPMH9	827	OGNPMH7	RPA0234

### 60 HERTZ 1800 RPM, 4160 VOLT

	1 OVERSIZE		2 07	VERSIZE	STD
	GENERATOR		GENI	ERATOR	GENERATOR
CONT.	FRAME	ORDER #	FRAME	ORDER #	REMOVAL
1660	826	OGNPMH6	827	OGNPMJ3	RPA0234

### 60 HERTZ 1800 RPM, 13,200 VOLT

	1 OVERSIZ	E	STD
	GENERATOR		GENERATOR
CONT.	FRAME	ORDER #	REMOVAL
1635	2630	OGNHV90	RPA0235

### NOMINAL FRAME SIZE GENERATORS--PREMIUM/PERMANENT MAGNET

USE REF NO. OPTIONAL ATTACHMENTS Ship Weight lbs List Price At Factory

# GENERATORS AND GENERATOR ATTACHMENTS (CONT.) 50 HERTZ 1500 RPM, 6600 VOLT

	1 OVERSIZE		STD
	GENERATOR		GENERATOR
CONT.	FRAME	ORDER #	REMOVAL
2000	2620	OGNHV85	RPA0233

### ATTACHMENT GENERATOR ARRANGEMENT FOR PGS

Installed brushless SR4B generators. Includes generator, package length rails, and generator coupling.

### 1500 RPM 415/400/380 VOLT @ 50 HZ, 3 PHASE

I	OGNPMH8	GENERATOR 828 FRAME 2 BRG	\$173,946
	1500 RPM, 3	3300 VOLT @ 50 HZ, 3 PHASE	
I	OGNPMJ3	GENERATOR 827 FRAME 2 BRG	\$153,935
ı	OGNPMJ4	CANNOT BE USED WITH: GDCDGER  GENERATOR 828 FRAME 2 BRG	\$179,777
	1500 RPM, 6	6600 VOLT @ 50 HZ, 3 PHASE	
I	OGNHV85	GENERATOR 2620 FRAME 2 BRG	\$192,111
I	OGNHV86	GENERATOR 2630 FRAME 2 BRG  TECHNICAL: 6600 volts at 50 Hz  Generator Argt= 217-6614  Winding= Form Wound, No. of Leads= 6  Excitation= Permanent Magnet, Pitch= .6667  CANNOT BE USED WITH: GDCDGER	\$192,111

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight Ibs	List Price At Factory
GENE	ERATORS A	ND GENERATOR ATTACHMENTS (CONT.)		
		80 VOLT @ 60 HZ, 3 PHASE		
	OGNPMH9	GENERATOR 826 FRAME 2 BRG	0	\$129,963
	COM MINIS	TECHNICAL: 480 volts at 60 Hz.  Generator Argt = 144-1826  Winding = Form Wound, No. of Leads = 6  Excitation = Permanent Magnet, Pitch = .7143		Ų123,303
	OGNPMH7	CANNOT BE USED WITH: GDCDGER  GENERATOR 827 FRAME 2 BRG	0	\$146,668
1	800 RPM, 4	160 VOLT @ 60 HZ, 3 PHASE		
I	OGNPMJ3	GENERATOR 827 FRAME 2 BRG  TECHNICAL: 4160 volts at 60 Hz.  Generator Argt = 144-2004  Winding = Form Wound, No. of Leads = 6  Excitation = Permanent Magnet, Pitch = .6  CANNOT BE USED WITH: GDCDGER		\$153,935
l	OGNPMH6	GENERATOR 826 FRAME 2 BRG  TECHNICAL: 4160 volts at 60 Hz.  Generator Argt = 144-2002  Winding = Form Wound, No. of Leads = 6  Excitation = Permanent Magnet, Pitch = .6667  CANNOT BE USED WITH: GDCDGER	0	\$138,552
1	800 RPM, 1	3,800 VOLTS @ 60 HZ, 3 PHASE		
l	OGNHV90	GENERATOR 2630 FRAME 2 BRG	0	\$208,377
G	enerator Re	movals		
	RPA0232	GENERATOR REMOVAL - 826 FRAME	0	\$-129,963
	RPA0233	GENERATOR REMOVAL - 2620 FRAME  Removes Generator 219-4092 and generator length rails.  REQUIRES: Optional generator.  ONLY FOR USE WITH: 50 Hz only.  CANNOT BE USED WITH: GDCDGER	0	\$ <b>-199,</b> 733
l	RPA0234	GENERATOR REMOVAL - 825 FRAME	0	\$-131,20 <b>4</b>
	odoo 01 IAN2017	Cubicat to always without notice		Effortive O1 IAN

USI	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight Ibs	List Price At Factory
GE	NERATORS A	AND GENERATOR ATTACHMENTS (CONT.)		
	Generator Re	emovals (Cont.)		
I	RPA0235	GENERATOR REMOVAL - 2620 FRAME	0	\$-208,389
	Low Voltage	Generator Options		
ı	DVLTCV1	DELTA CONVERSION-2400V	0	\$59
	Optional Volt	tage Regulator		
ı	LVEXB01	LOW VOLTAGE EXTENSION BOX  TECHNICAL: Provides separate compartment for low voltage attachments and components for SR4B generated Mounts on LH side as viewed rear of generated ONLY FOR USE WITH: Low Voltage Only.  CANNOT BE USED WITH: OGNPMJ3, OGNPMJ4, OGNPMH	ge ators. or.	\$1,558
	Cable Access	s Box		
I	CAACBX2	CABLE ACCESS BOX		\$1,847
	Air Filter			
I	GNAIF04	AIR FILTER - GENERATOR		\$4,608
	Bearing Temp	perature Detectors		
ı	RTD0003	BEARING TEMPERATURE RTD		\$808
	Manual Volta	age Controls		
I	MVC0003	MANUAL VOLTAGE CONTROL	0	\$741
	European Bus	s Bars		
I	EUROBB1	EUROPEAN BUS BARS	0	\$189

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
GO۱	/ERNING SY	STEM		
L	oad Share I	/odule		
 I	LSMOD03	LOAD SHARING MODULE	0	\$1,545
•	LSMODUS	Shipped loose.  Woodward load sharing module. Provides load sharing funct compatible with electronic actuator and "C" series electronic	ions	Ÿ1,3 <del>1</del> 3
LUB	E SYSTEM			
(	Crankcase V	entilation - Oil Fumes		
I	OILFUM2	POSITIVE CRANK VENTILATION		\$8,114
MOI	UNTING SYS	STFM		
		lator Removal		
, I	VIBRM04	VIBRATION ISOLATOR REMOVAL	0	\$-1,635
•	VIDICIVIO	VIBRATION ISOLATOR REMOVAL	0	Ş-1,033
PRO	TECTION S	YSTEM		
F	Relief Valve			
I	EXRVL17	EXPLOSION RELIEF VALVE	rovides	\$462
SPE	CIAL TESTS	/REPORTS		
5		s/ <b>Reports</b> ed prior to factory Start-on-line Date ss Test - Consult Factory		
I	TRSGEN2	PGS TEST REPORT @ 1.0 PFTDSCFN7	0	\$324 NE
I	TRSGEN7	CANNOT BE USED WITH: PGS test report TRSGEN7. PGS TEST REPORT @ 0.8 PF	0	\$324 NE
I	TRSGEN1	CANNOT BE USED WITH: PGS test report TRSGEN2.  GENERATOR TEST REPORT	engine is	\$324 NE
		NOTE: Generators may be tested to a Frequency or Voltage higher than advertised on the price list. A passed terindicates the product will meet and exceed the requirements a 50Hz rating. A passed test at a higher voltage indeproduct will meet and exceed the requirements of the voltage rating.	st at 60Hz irements of icates the	

\$382 NET

USE REF NO. OPTIONAL ATTACHMENTS Ship Weight lbs List Price At Factory

### SPECIAL TESTS/REPORTS (CONT.)

### Special Tests/Reports (Cont.)

**TVATRS1** 

**TVATRS2** 

I

Provides Standard Gen Set Torsional Vibration Analysis (TVA) Report for a selected Caterpillar engine and Caterpillar generator combination. Not available for custom generators. For custom generator TVA reports use TVATRS2. See Engine Data Sheet 73.3 for the report number to be requested. Report number should be

STANDARD GENSET TVA REPORT ........

shown on the order request.

may be additional charges for analysis of applications where more than one engine drives a single load. A separate torsional analysis is required for each engine with different driven equipment in multiple engine installations.

One complete set of technical data (see below) must be submitted to Caterillar before calculations are undertaken. The report will

One complete set of technical data (see below) must be submitted to Caterpillar before calculations are undertaken. The report will include a mathematical determination of the natural frequency, critical speeds, relative amplitudes of angular displacement, approximate nodal locations of the complete elastic system (both engine and driven equipment).

NOTE: IF ALL TECHNICAL DATA REQUIRED IS NOT RECEIVED, ANALYSIS MAY BE DELAYED UNTIL THE MISSING INFORMATION IS PROVIDED.

#### TECHNICAL DATA REQUIRED:

- 1. The operating speed range.
- Load demand curve on sets which have a load dependent variable rigidity coupling.
- General arrangement drawing or sketch of complete system, including data on special crankshaft pulleys and equipment driven from front of engine.
- 4. With driven equipment on both ends of the engine, the horsepower demand of each end is required. In addition, simultaneous front and rear horsepower (maximum engine load) is required.
- 5. Make, model, WR2 and torsional rigidity on all couplings used between the engine and driven equipment.
- WR2 of each rotating mass. Weight of each reciprocating mass. (Needed for all pumps, compressors, gears, pinions, propellers, generators).
- Torsional rigidity and minimum shaft diameter or detailed dimensions of all shafting in the driven system whether separately mounted or installed in a housing.

ADDITIONALLY, if an order has not been placed, the following information must also be submitted:

- 1. Damper part number (not top level or pricing arrgt.)
- 2. Flywheel part number (not top level or pricing arrgt.)
- 3. Horsepower
- 4. Operating speed
- 5. Coupling part number; or indicate one or two-bearing

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight Ibs	List Price At Factory
SPEC	CIAL TESTS	/REPORTS (CONT.)		
S	pecial Tests	s/Reports (Cont.)		
ļ	TSP0001	FUEL CONSUMPTION TEST  Fuel rate and specific fuel consumption determined at 3 points a rated speed. (Full load, three quarters load and half load.) This 3L-0291 Test must be requested prior to factory build. This is a fuel consumption test and, as such, is not a substitute for and onot provide the kind of performance information provided by TR	at 1 does	\$1,039 NE
		NOTE: Test is run as basic engine before generator is attached Order can include a generator but a generator is not par unit when engine is tested. See TSP0002.		
I	TSP0002	GENSET FUEL CONSUMPTION TEST	no	\$1,039 NE
	TRSENG1	STD ENGINE TEST CHARGE  Test will be performed in accordance with 3L-0436 and must be requested prior to factory build. The test takes about one hour. There is no assurance that the engine will be tested at the ratin specified in the order.  Test results reported are: throttle position setting, full load BHP turbocharger boost (if applicable), fuel rate at full load, lube oil pressure, RPM at rated speed and high idle.	e g	\$324 NE
SPEC	CIAL PACKI	NG/INSPECTIONS FOR SHIPMENT		
E	xport Boxin	g		
	EXB0010	BOX FOR EXPORT	0	\$1,695 NE
S	pecial Pack	ing		
	SWP0001	SHRINK WRAP PROTECTION	0	\$315 NE
	EXP0003	PACK FOR AIR FREIGHT	0	NC
	EXP0004	Provides labels and documents for air freight.  SPEC MARKINGS ON EXPORT BOXING	0	\$143 NE
S	torage Pres	ervation		
I	SRP0014	PRESERVATION - CORROSION INHIB	0	\$939 NE

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight Ibs	List Price At Factory
SPE	CIAL PACKI	NG/INSPECTIONS FOR SHIPMENT (CONT.)		
D	Domestic Pa	ck for Export		
l	DPX0001	DOMESTIC PACK-EXPORT CONTAINER	dded to	NC
I	DPX0002	Does not include any packing. Only adds markings for expo ONLY FOR USE WITH: Engines or miscellaneous parts (All models on rails or requiring	ort shipment. and attachments	NC
li	inspection by a transmissions before boxing. be supplied to	cellaneous handling charges for customer requested a private agency for inspection of engines, generators, and miscellaneous material. Includes visual inspection No special test involved. Import license number must factory prior to inspection.  Jee only for generator sets manufactured at Lafayette.		
I	MISCHC1	S.G.S. INSPECTION	0	\$432 NE
I	MISCHC2	S.G.S. inspection covers all contents of a given order.  MISCELLANEOUS INSPECTION		\$432 NE
STA	RTING/CHA	RGING SYSTEM		
S		<b>rging System</b> y for air starter.		
I	ALT2490	CHARGING ALTERNATOR 24V 60 AMP	e for alternator.	\$2,670
I	ALT2497	CHARGING ALTERNATOR 24V 60 AMP ONLY FOR USE WITH: 1800 rpm units only.	0	\$2,411
C	Dil Pan Acce	essories		
I	OLVLRG4	OIL LEVEL REGULATOR	0	\$525

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
	Battery Charg 24-VDC output Current limiting	RGING SYSTEM (CONT.)  ger for use with lead acid or nicad batteriesneed for crank disconnect relay. Not erviced by Caterpillar Inc.		
	BTC20A2	BATTERY CHARGER 20 AMP Includes high voltage, low voltage and AC failure alarm outputs. DC Ameter and Voltmeter, NEMA 1 enclosure. TECHNICAL: For 120-208-240 VAC input. 50/60 Hz. Reg Meets requirements for NFPA 99 and NFPA UL 1564 and CSA C22.2 No. 107 listed 2-r with automatic switching from equalize to form	gulated. 110. rate charging	\$1,486
E	<b>Battery</b> Shipped loose.			
ļ	BAT2417	24 VOLT BATTERY SET - DRY		\$2,536
	BATRM01	BATTERY REMOVAL	0	\$ <b>-1,</b> 392
J		<b>Coolant Heaters</b> I is not chosen, customer must provide.		
	JWH0018	JACKET WTR HTR-SINGLE W/PUMP		\$2,523
	JWH0082	JACKET WTR HTR-SINGLE W/PUMP		\$3,040
GEN	IERAL			
E	Barring Devic	e		
	BARGP01	ENGINE BARRING GROUP	0	\$214
A	Aid Emblem			
l	AIDEMB	US AID EMBLEM	elopment ance to located and the vavailable	NC
F	Paint			
I	SPCPNT1	SPECIAL PAINT - 3500	0 paints.	\$684 N

REF Ship Weight List Price **OPTIONAL ATTACHMENTS** USF NO. lbs At Factory

### SVCE TOOLS/SHIP PROT/FACTORY SUPPORT

### **Commissioning**

I FACCOM1

\$7,575 NET

Commissioning will be invoiced at \$1,400 per day, plus expenses, to the selling dealer. This \$7,000 Net charge will be deducted from

the total cost of the commissioning.

#### **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).

#### **PACKING**

### Shipping Protection

DPX0001 NC

ONLY FOR USE WITH: Engines not boxed.

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.