# CRITICAL EVENT/EMERGENCY PURCHASE ORDER



PO Number Page
E2017-001 1 of 1

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKING LISTS, LABELS, BILLS OF LADING AND CORRESPONDENCES.

DATE: 9/12/17

PROJECT: IRMA 170909

SUPPLIER:

SHIP TO:

PANTROPIC POWER PRODUCTS, INC.

**PUBLIC WORKS** 

8205 NW 58th Street

434 S SWINTON AVE

MIAMI, FL 33166

DELRAY BEACH, FL 33444

| Item      | Description                    | Quantity | Unit Price    | Total          |
|-----------|--------------------------------|----------|---------------|----------------|
| XQ200_N   | XQ200 RENTAL PKG               | 12       | \$198,564.00  | \$2,382,768.00 |
| MSPMDXQ_I | RENATL EPG                     | 12       | \$0.00        | \$0.00         |
| MSCEC77_I | PUBLIC OR CIVIL SERVICES       | 12       | \$0.00        | \$0.00         |
| MWCODEF_I | STANDBY POWER                  | 12       | \$0.00        | \$0.00         |
| CERTUSA_I | INSIDE US EPA LOCATIONS        | 12       | \$0.00        | \$0.00         |
| LANENGO_I | ENGLISH LANGUAGE OPTION        | 12       | \$0.00        | \$0.00         |
| 60H0480_I | 60Hz 480 VOLTS                 | 12       | \$0.00        | \$0.00         |
| STDRL_I   | STANDARD SPRING RIDE CHASIS    | 12       | \$0.00        | \$0.00         |
| LITENGE_S | ENGLISH LITERATURE             | 12       | \$0.00        | \$0.00         |
| ESCONE_I  | NO ESC                         | 12       | \$0.00        | \$0.00         |
| DISC      | FLORIDA SHERIFF – 10% OFF LIST | 12       | (\$19,856.40) | (\$238,276.80) |
| DISC2     | ADDITIONAL DISCOUNT            | 12       | (\$53,707.60) | (\$644,491.20) |

PO TOTAL \$1,500,000.00

BILL TO: CITY OF DELRAY BEACH ACCOUNTS PAYABLE 100 NW 1ST AVENUE DELRAY BEACH, FL33444

APPROVED:

FLORIDA STATE SALES TAX EXEMPTION CERTIFICATE NO. 85-8012621559C-4 EXPIRATION DATE 08/31/2017

Neal de Jesus, Interim City Manager



#### Kelly Tractor Co. Serving the Industry Since 1933

ktccat@kellytractor.com

### **September 12, 2017**

City of Delray Beach

CSQ # 3034 / 4347 R2

REF: Quoted per Florida Sheriff's Association Contract # 15-13-0904 Specification # 73 Contract expires September 30, 2017

**CONTRACT PRICING** 

BID SPEC CATERPILLAR XQ570

\$ 275,000.00

BASE XQ200 CATERPILLAR DIESEL GENERATOR, FREIGHT& PREP ONLY

## NON- SPECIFIED OPTIONAL MODEL BID FLORIDA SHERIFF ASSOCIATION CONTRACT

| Part Number | Qty | DESCRIPTION                     | LIST PRICE     |
|-------------|-----|---------------------------------|----------------|
| XQ200_N     | 1   | XQ200 RENTAL PKG                | \$ 198,564.00  |
| MSPMDXQ_I   | 1   | RENTAL EPG                      | BASE           |
| MSCEC77_I   | 1   | PUBLIC OR CIVIL SERVICES        | 0.00           |
| MWCODEF_I   | 1   | STANDBY POWER                   | 0.00           |
| CERTUSA_I   | 1   | INSIDE US EPA LOCATIONS         | BASE           |
| LANENGO_I   | 1   | ENGLISH LANGUAGE OPTION         | 0.00           |
| 60H0480_I   | 1   | 60HZ 480 VOLTS                  | 0.00           |
| STDTRL_I    | 1   | STANDARD SPRING RIDE CHASSIS    | BASE           |
| LITENGE_S   | 1   | English Literature              | BASE           |
| ESCNONE_I   | 1   | NO ESC                          | BASE           |
|             |     | USD List Total                  | \$ 198,564.00  |
|             |     | FLORIDA SHERRIFF - 10% OFF LIST | (\$ 19,856.40) |



### **Kelly Tractor Co.**

ktccat@kellvtractor.com

| В | ADDITIONAL DISCOUNT (DISCOUNT)   | (\$ 53,707.60) |
|---|----------------------------------|----------------|
|   | QUOTATION TOTAL – DETAILED ABOVE | \$ 125,000.00  |
|   | SEE BELOW CLARIFICATIONS         |                |

XQ200 RENTAL PKG each = \$125,000.00 (plus applicable sale tax)

Quantity of twelve (12) units = \$1,500,000.00 (plus applicable sale tax)

#### **Exceptions / Clarifications to specification to proposal:**

- 1. No written specifications or drawings provided at the time of this proposal.
- Diesel fuel is to be provided by others.

Important: Quote does not include the following (unless otherwise specifically noted above in the General Scope of Supply):

Fuel, Fuel Piping, Fuel Venting **Fuel Equipment Installation Exhaust Equipment Installation Exhaust Pipe & Insulation Electrical Equip. Installation** 

Cables, Wires and Conduits **All Equipment Installation Engineering & Design Engineering Drawings Installation Permitting & Fees**  **Foundation Concrete Pad Equipment Unloading Equipment Storing Equipment Rental Equipment Anchoring** 

Thank you for consideration of our product. Quote is valid for thirty days.

PANTROPIC POWER PRODUCTS, INC.

Robert Cosgrove (305) 477-3329 Ext. 3110 (305) 477-1943 Fax





Shown without optional trailer

## STANDBY 200 kW PRIME 182 kW POWER MODULE 60 Hz 1800 rpm 480V

| Frequency | Frequency Voltage |           | Prime<br>kW (kVA) |  |
|-----------|-------------------|-----------|-------------------|--|
| 60 Hz     | 480/277V          | 200 (250) | 182 (227.5)       |  |
| 60 Hz     | 240/139V          | 200 (250) | 182 (227.5)       |  |
| 60 Hz     | 208/120V          | 200 (250) | 182 (227.5)       |  |

#### **FEATURES**

#### **FUEL/EMISSIONS STRATEGY**

 EPA and CARB Tier 4 Final Technology for Non-Road Mobile applications at all 60 Hz ratings

#### SINGLE-SOURCE SUPPLIER

- Factory designed and fully prototype tested with certified torsional vibration analysis available
- ISO 9001:2000 compliant facility

### CAT® C7.1 Interim 4 ACERT™ DIESEL ENGINE

- Utilizes ACERT Technology and Cat NOx Reduction System (NRS)
- Cat CEM exhaust after treatment
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight
- Electronic engine control

#### **CAT LC SERIES GENERATOR**

- Matched to the performance and output characteristics of Cat engines
- UL 1446 Recognized Class H insulation

#### **CAT EMCP 4.2 CONTROL PANEL**

- Fully featured power metering, protective relaying and engine/generator control and monitoring
- Simple user friendly interface and navigation
- · Automatic set-point adjustment

### CAT DIGITAL VOLTAGE REGULATOR (CDVR)

- Three-phase sensing
- Adjustable volts-per-hertz regulation
- Provides precise control, excellent block loading, and constant voltage in the normal operating range

#### **ENCLOSURE**

- Highly corrosion resistant 12 gauge galvanealed sheet steel construction
- Two coat polyester powder-coated finish
- Six access doors for ease of maintenance
- Secure and safe design with safety glass control panel viewing window with lockable access door
- Fuel fill and battery can only be reached through lockable access doors
- Certified single point lifting eye and lifting points on the base frame

#### **DISTRIBUTION PANEL**

 Switchable voltage from 480/277V 3 phase to 240/139V 3 phase (can be adjusted down to 208/120V 3 Phase), 240/120V 1 phase

#### **REAR CUSTOMER ACCESS**

- Separate control panel and distribution panel access doors
- · Hinged door over main bus connectors
- Emergency stop on panel
- Remote start/stop contacts

#### REDUCED ENVIRONMENTAL IMPACT

- EPA Tier 4Interim technology
- 110% spill containment of onboard engine fluids
- Meets 71 dB(A) at 7 m per SAE J1074

#### **RENTAL READY FEATURES**

- Anti-condensation heater 110-120 VAC
- Coolant heater 110-120 VAC
- UL Listed battery charger
- Solar powered battery maintainer
- · Cam lock distribution system



## XQ 200 RENTAL

### **FACTORY INSTALLED STANDARD EQUIPMENT**

| CVCTEM              | STANDARD FOURDMENT  |
|---------------------|---|
| SYSTEM              | STANDARD EQUIPMENT  |
| Air Inlet           | Air cleaner, two stage cyclonic/paper with dust cup and service indicator Series turbocharger and air-to-air aftercooler  |
| Charging System     | 12V - 100 Amp charging alternator UL/CSA listed 120V-10A battery charger Solar powered battery maintainer   |
| Control Panel       | EMCP 4.2 genset mounted controller Automatic start/stop with cool down timer Idle/rated switch Generator Protection features: 32, 32RV, 46, 50/51, 27/59, 81 O/U Metering display: voltage, current, frequency, power factor, kW, WHM, and kVAR   |
| Cooling System      | Package mounted radiator with vertical air discharge provides 43° C ambient capability at standby rating 120VAC coolant heater, fuse protected, thermostatically controlled, automatically disconnected on start-up Coolant drain line with internal control valve piped to base-frame Coolant sight gauge, level switch and shutdown 50% Coolant antifreeze with corrosion inhibitor   |
| Distribution System | NEMA 1 steel enclosure with separate hinged, lockable door Main bus connections with hinged load cover with clear Plexiglas window closed for operation 4-pole 800A 100% UL circuit breaker with 12V DC shunt trip wired to load door safety switch Multiple duplex and twist lock receptacles with individual circuit breakers Two wire remote start/stop terminals and 120 VAC shore power connection for rapid starting CamLock distribution system  |
| Enclosure           | Sound attenuating, 12gauge galvanealed sheet metal enclosure limits overall noise to 71 dB(A) @ 7m (23') Interior walls and ceilings insulated with sound attenuating foam Black stainless steel pad-lockable latches, doorkeepers on all doors and zinc die-cast hinges/grab handles All components are pretreated for anti-corrosive protection prior to painting with polyester powder coat Painted Cat power module white with Cat rental decals  |
| Engine              | EPA Tier 4 Interim technology Cat C7.1 ATAAC heavy duty diesel engine Electronic ADEM™ A4 controls 12VDC energized to shutdown solenoid   |
| Exhaust System      | Cat Clean Emissions Module and integrated silencer with flexible connectors   |
| Fuel System         | 350 gal fuel tank, UL listed, double wall, 24 hr runtime @ 100% prime rating Fuel cooler, primary fuel filters with integral water separator, and engine mounted secondary Switch operated electric priming pump Interconnected three way fuel for switching between remote and integral tank   |
| Generator           | Three-phase, random wound, 12-lead design, 0.667 pitch Screen protected and drip proof, self regulating, brushless generator with fully interconnected damper windings, IC06 cooling system and sealed for life bearings Class H insulation with coastal insulation protection. Windings are impregnated in a triple dip, thermo-setting moisture, oil and acid resisting polyester varnish. Heavy coat of anti-tracking varnish for additional protection against moisture and condensation Permanent magnet provides 350% short circuit, enhanced motor starting and non-linear performance 120VAC anti-condensation heater Cat digital voltage regulator (Cat DVR) with VAR/PF control |
| Lube System         | Lubricating oil system including pump, integral oil cooler, lube oil, filter, open crankcase breather with filter Oil drain line with internal valve routed to connection point accessible from exterior 500 hour oil change intervals  |
| Mounting System     | Generator set soft mounted to the heavy duty, fabricated steel base frame using captive anti-vibration pads between the generator set and base-frame to ensure complete isolation of rotating assemblies Base frame includes integral fuel tank and provides 110% spill containment of all engine fluids  |
| Starting System     | Single 12V electric starting motor on engine One 12V-1000 CCA Cat brand maintenance free battery with disconnect switch, battery rack, and cables Glow plugs fitted on the engine   |
| General             | Factory testing of standard generator set and complete power module Full manufacturer's warranty O&M manuals  |
|                     | OPTIONAL EQUIPMENT  |
| Available Options   | Canadian Standards Authority certification (CSA) Transport Canada compliant fuel tank (IBC CGSB43) Tandem axle trailers with either hydraulic or electric brakes  |

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## CAT

## XQ 200 RENTAL

## **TECHNICAL DATA**

| CAT GENERATOR                    | ENGINE       |
|----------------------------------|--------------|
| Frame Size                       | Manufacturer |
| Telephone Influence Factor (TIF) |              |

Materials and specifications are subject to change without notice.

| Generator Set Technical Data                  |               | 60Hz        | 60Hz         |
|---|---------------|-------------|--------------|
|   | Units         | Standby     | Prime        |
| Power Rating                                  | kW (KVA)      | 200 (250)   | 182 (227.5)  |
| Performance Specification                     |               | DM          | DM           |
| Lubricating System                            |               |             |              |
| Oil pan capacity                              | L (gal)       | 16(4.3)     | 16(4.3)      |
| Fuel System                                   |               |             |              |
| Fuel consumption                              |               |             |              |
| 100% Load                                     | L/hr (gal/hr) | 59.5 (15.7) | 53.1 (14.0)  |
| 75% Load                                      | L/hr (gal/hr) | 44.6 (11.8) | 39.8 (10.5)  |
| 50% Load                                      | L/hr (gal/hr) | 29.8 (7.9)  | 27.8 (7.3)   |
| Fuel Tank Capacity                            | L (gal)       | 1295 (350)  | 1295 (350)   |
| Running time @ 75% rating                     | Hr            | 29          | 33           |
|   |               |             |              |
| Cooling System                                | 00 (05)       |             |              |
| Ambient Capability                            | °C (°F)       | 43          | 43           |
| Engine & Radiator coolant capacity            | L (gal)       | 28 (7.6)    | 28 (7.6)     |
| Engine coolant capacity                       | L (gal)       | 11.5 (3.1)  | 11.5 (3.1)   |
| Air Requirements                              |               |             |              |
| Combustion air flow                           | m₃/min (cfm)  | 4.4.0 (505) | 10.0 (100.0) |
| Maximum dirty air cleaner restriction         | kPa (in H₂O)  | 14.3 (505)  | 13.6 (480.3) |
| Exhaust System                                | , ,           |             |              |
| Exhaust flow at rated                         | m₃/min (cfm)  | N/A         | 13.1 (462.6) |
| Exhaust temperature at rated kW – dry exhaust | °C (°F)       | 506 (942.8) | N/A          |
| Noise Rating (with enclosure)*                |               |             |              |
| @ 7 meters (23 feet)                          | dB(A)         | 71          | 71           |
| Emissions (Tier 4 interim regulation)         |               |             |              |
| NOx   | g/hp-hr       | 1.9         | 1.9          |
| CO  | g/hp-hr       | .2          | .2           |
| HC  | g/hp-hr       | .02         | .02          |
| PM  | g/hp-hr       | .005        | .005         |

| Model<br>XQ200    | Length<br>mm (in) | Width<br>mm (in) | Height<br>mm (in) |                                      | Weight kg (lb) |
|-------------------|-------------------|------------------|-------------------|--------------------------------------|----------------|
| AQZOO             |                   | ()               |                   | Lube Oil & Coolant – Empty Fuel Tank | 4,053 (8,916)  |
|                   |                   |                  |                   | Fuel Tank 200 Gallons of Fuel        | 4,701 (10,346) |
| XQ200 w/o chassis | 4,083 (161)       | 1,401 (52)       | 2,162 (85)        | Full Fuel Tank                       | 5,300 (11,660) |
| XQ200 w/ chassis  | 6,019 (237)       | 2,235 (88)       | 2,577 (101)       | Chassis Weight Addition              | 916 (2,016)    |

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#### CONTROL PANEL

#### **FEATURES**

- EMCP 4.2 engine operator interface
- · Battery charger indicator
- Fuel level display
- Idle /rated switch
- Panel light momentary pushbutton
- Voltage adjust potentiometer
- Regeneration alarm indications for DPF 80% soot level and high exhaust temperature
- Coolant alarm
- Emergency stop pushbutton
- Alarm horn
- Convenient service access for Cat (service tools not included).

#### **EMCP 4.2 ENGINE OPERATOR INTERFACE**

- Controls
  - Run/Auto/Stop - Emergency Stop - Speed Adjust - Cycle crank
  - Cool-down timer
- Engine Monitoring:
  - RPM - DC Volts - Operating hours - Oil pressure - Coolant Temperature - Oil Temperature
- True RMS AC metering, 3 phase
  - L-L volts, L-N volts, phase amps
  - Average volts, Amps, Frequency
  - ekW, kVA, kVAR, kW-hr, %kW
  - Power Factor (Average, Phase)
  - kW-hr, kVA-hr (total)
- Shutdowns with common indicating light for:
  - Low oil pressure
- Overspeed
- High Coolant Temp
- High Oil Temp
- Failure to Start (Overcrank) Low Coolant level
- Emergency stop
- Fuel level monitoring and control.

#### **EMCP 4.2 GENERATOR PROTECTIVE RELAYING**

- Generator protective features provided by EMCP 4.2
  - Phase over/under voltage (Device 27/59)
  - Over/Under frequency (Device 81 O/U)
  - Reverse Power (Device 32/32RV)
  - Current Balance (46)
  - Overcurrent (Device 50/51) (GCB trip unit)
  - Loss of Excitation (Device 40) (CDVR)
  - Generator Phase Sequence



#### **DISTRIBUTION PANEL**

- One 4 pole 800 A MCCB, with 12 VDC shunt trip coil activated on any monitored engine or electrical
- Under-voltage release NEMA 1 steel enclosure with hinged lockable door with clear Plexiglas window
- · Bus bars are sized for full load capacity of the generator set at 0.8 power factor.
- · Includes ground bus, tin-plated copper, for connection to the generator frame ground and field ground cable.
- Customer convenience panel with multiple output receptacles:
  - 1 125V, 30 A single phase auxiliary supply
  - 2 240V, 50A California style Twist Lock.
  - 2 120/208V, 20A Twist Lock.
  - 2 120V, 20A Duplex Receptacles with GFI..
- CamLock distribution system
- · Consistent 120VAC output from GFCI receptacles independent of bus bar voltage

#### **AC DISTRIBUTION**

- Provides 120 VAC for all module accessories.
- Includes controls to de-energize jacket water heaters, battery charger, and generator space heater when the engine is running.



#### RATING DEFINITIONS AND CONDITIONS

Meets or Exceeds International Specifications: CSA 22.0 No. 100, IEC60034-22, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-16, UL1004B, NEC,CEC, 2006/42/EEC, 2006/95/EC, 2004/108/EC, 2000/EC/14, UL142, Ulc601, IBC CGSB43, API 546, EGSA 101P, IEEE 43, DEFRA, UL1741, NFPA 99/110, OSHA, 97/68/EC, BS4999, BS5000, IEC60034-5

**Fuel Rates** are based on fuel oil of 35o API {16oC (60oF)} gravity having an LHV of 42780 kj/kg (18390 Btu/lb) when used at 29oC (85oF) and weighing 838.9 g/liter (7.001 /b/U.S. gal). Additional ratings may be available for Specific customer requirements, contact your Caterpillar Representative for details. For information regarding Low Sulfur fuel and biodiesel capability, consult your Cat Dealer.

**Standby** – Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator on the generator set is peak prime rated (as defined in ISO852 at 30° C (86° F).

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO0346 standard conditions.

**Prime** – Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchase power. There is no limitation on the annual hours of operation and the generator can supply 10% overload power.

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