



**SUPPLEMENT 01
BP26A FURNISH ONLY EMERGENCY GENERATOR BILL OF MATERIALS
01/12/2024**

RE: Madison PK-5 Elementary School / Emergency Generator Bid Proposal

Thank you for the opportunity to quote you:

H. O. Penn Machinery Company, Inc. is pleased to offer for your consideration **Qty. (1)** new Caterpillar packaged generator set model **C9** rated at **300 kW, standby, 480 volts**, 3 phase, 4 wire, 1800 RPM, diesel driven, 60 cycles at .8 power factor. UL2200 listed. NFPA 110

GENERATOR BILL OF MATERIALS

AIR INLET SYSTEM

- Air cleaner - Single element

CONTROL PANELS

- GCCP 1.2 4-line back-lit LCD text display
- Multiple display languages
- Five-key menu navigation
- LCD alarm indication
- Customizable power-up text and images
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3-phase generator sensing and protection
- Generator current and power monitoring (kW, kvar, kVA, pf) kW and kvar overload and reverse power alarms
- Over current protection
- Unbalanced load protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using
- CAN Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs (3 available for Customer use)
- 8 configurable digital outputs (5 available for Customer use)

H.O. PENN MACHINERY COMPANY, INC.

699 Brush Avenue
Bronx, NY 10465
(718) 863-3800

660 Union Avenue
LIE (Exit 62)
Holtsville, NY 11742
(631) 758-7500

20 Platinum Court
Medford, NY 11763
Power Division
(631) 758-7500

122 Noxon Road
Poughkeepsie, NY 12603
(845) 452-1200

225 Richard Street
Newington, CT 06111
(860) 666-8401

783 Bloomingburg Road
Bloomingburg, NY 12721
(845) 733-6400

- 4 configurable analogue inputs (3 available for Customer Use)
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel usage monitor and low fuel level alarms
- 3 configurable maintenance alarms

CIRCUIT BREAKERS

- 100A Fixed mounted
- 250A Fixed mounted
- 1200A Fixed mounted

COOLING:

- Radiator and cooling fan complete with protective guards
- Standard ambient temperature up to 50degC (122degF)
- 50% coolant antifreeze/corrosion inhibitor
- Coolant Reservoir

ENCLOSURE:

- Aluminum enclosure, white in color
- Sound attenuated,
- Weatherproof with Cold Weather package

LOCAL ANNUNCIATOR

- Provides 16 point/32 light annunciator, installed on control panel, with NFPA99-110/CSA 282 label
- Remote Annunciator Panel (shipped loose, installed by others).
- Remote Emergency Stop Button (shipped loose, installed by others).

EXHAUST SYSTEM

- Stainless steel exhaust flex with ANSI-style outlet flange, gasket, bolts and mating weld flange.
- Engine Exhaust System including:
 - Exhaust silencer mounted

FUEL SYSTEM:

- Primary and secondary fuel filters
- Integral Fuel Tank 660 Gallons, 24 Hrs. Run time @ 100% load
- UL Listed for United States (UL 142)
- Facilitates compliance with NFPA 30, 37, and 110 standards
- Robust base design includes linear vibration isolators between tank base and engine generator

GENERATORS AND GENERATOR ATTACHMENTS

- Permanent Magnet Excited.
- Insulation system, class H
- Drip proof generator air intake (NEMA 2, IP23)
- GOVERNING SYSTEM
- Cat Electronic Governor (ADEM IIII)

LUBE SYSTEM

- Lubricating oil.

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

MOUNTING SYSTEM

- Formed structural steel base
- Pad type vibration isolators (shipped loose, installed by others)

PROTECTION SYSTEM

- Safety shutoffs for:
- High water temperature
- Over speed
- Low oil pressure

STARTING/CHARGING SYSTEM

- 24V heavy duty electric starting motor
- Battery disconnect switch.
- Lead acid batteries
- 10 Amp battery charger
- Engine driven charging alternator

H.O. PENN PRODUCT SUPPORT:

- 5 years Caterpillar standby factory warranty
- Jobsite Startup and 2 Hours Load Bank Test.
- 1 Year Genset PM Agreement
- Project Management Support

ADD ALTERNATE: If qty. (1) 260A Open Transition, qty. (1) 1000A, Open Transition, 480V, 3PH, 4 pole, Nema 1 enclosure ATs are required add to the above

If you should have any questions, please feel free to contact me at (860) 601-0065.

Sincerely,

Michael Wynne

Michael Wynne
EPG Sales Engineer
mwynne@hopenn.com

NOTES / CLARIFICATIONS:

- Installation/ hoisting/ rigging & connections by others.
- Shipping to Single Destination
- No Long-Term Storage
- Independent test agency supplied by others.
- Job site coordination, short circuit studies, NETA, ground fault, insulation resistance, battery testing & infrared scanning provided by others.
- Current genset lead time is 24-26 weeks after release for production.

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- Current ATS lead time is 8-10 weeks after release for production.
- H.O. Penn is not providing an 80 degree C rise rated alternator.

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