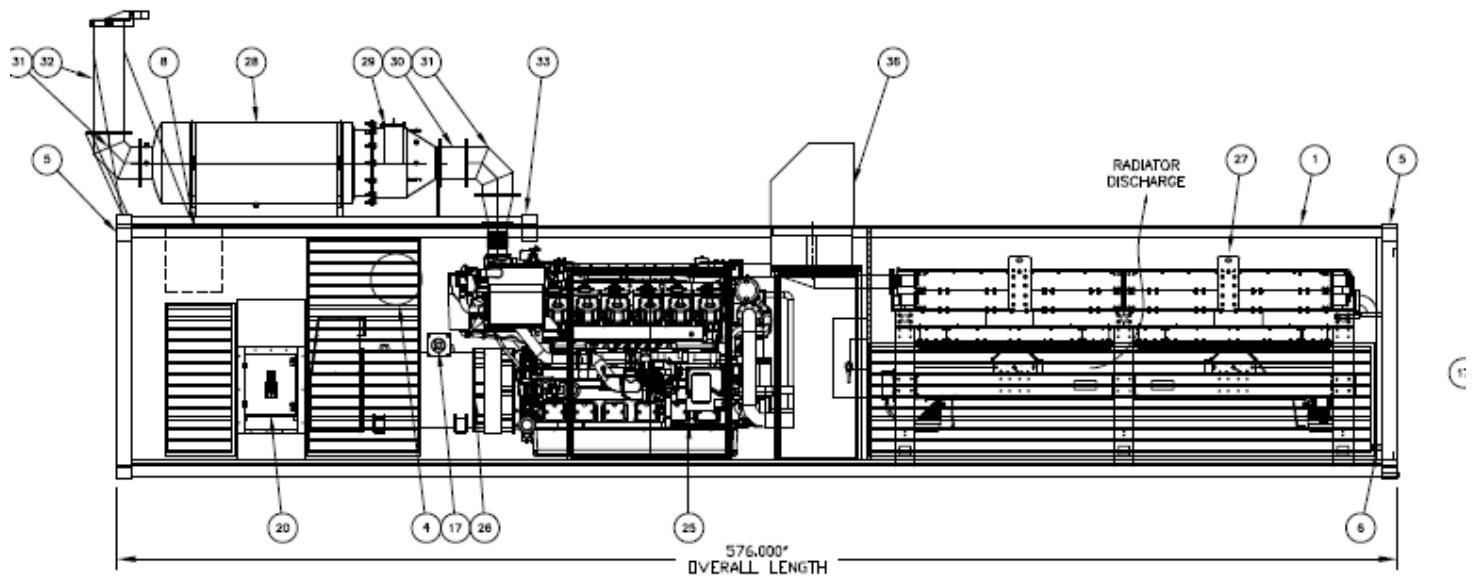
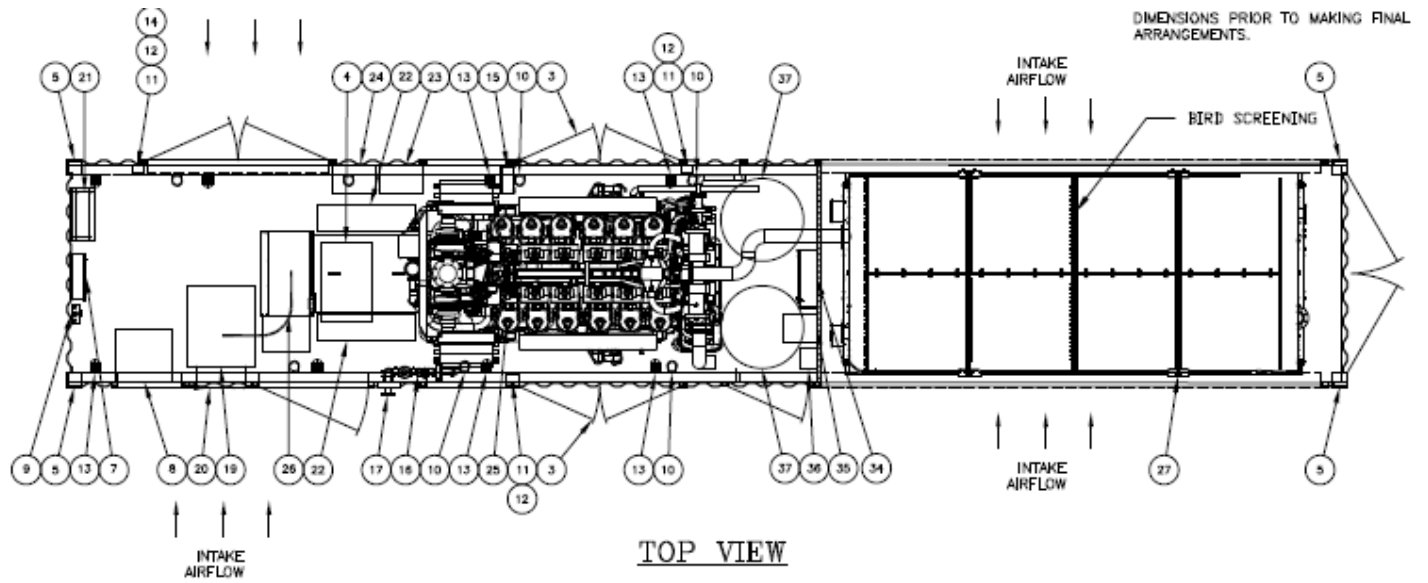


General Arrangement Diagrams:

(See full GA drawing for details)



Scope of Supply / Major Bill of Materials

The following table summarizes 3Pi major scope of supply for this project. The tables also include a list of major parts that 3Pi is assuming will be provided by customer/others. Additional details are provided in the General Arrangement (GA) drawing.

Base Generator Set

Group ID#100 – Engine, Alternator, Base

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
100	Engine: Waukesha VHP-7044GSI, 1200RPM 1680 Bhp continuous, EPA Mobile Off Highway Certified	1		
101	Engine Controls & Interface: Waukesha Engine ESM	1		
102	EPA Certified with Auxiliary I/O Box.	1		Supplied for EPA Cert Engines only
103	Genset base frame	1		
104	Alternator, Marathon MagnaMax 743 Frame, 6-Pole, 2-bearing, 1200RPM, 125DegC rise (40DegC ambient), IP-22 Drip cover, formed coil with VPI, 480VAC	1		

Fuel System

Group ID#125 – Fuel Supply System

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
125	Inlet gas train, including: Regulator, manual shutoff valve, solenoid valve.	1		For Natural Gas fuel supply. <i>Note: Does not include fuel scrubber</i>

Lube oil System

Group ID#125 – Fuel Supply System

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
126	Lube Oil Makeup Tank – 50 Gallon, with level indication	1		

Cooling System**Group ID#150 – Cooling System**

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
150	Remote Radiator, Horizontal type, top discharge, with coolant piping, flanged connections to engine	1		Sized for minimum 105 Deg F ambient, no rise from ambient to radiator air-on temp, 3500' attitude.
151	VFD drive and control of radiator fans via HT and LT temperature sensors	1		(1)
152	Generator section ventilation fans	2		Target 15 Deg F maximum heat rise over ambient

Electrical & Controls - OPTIONS**Group ID#450 –Electrical Distribution and Controls**

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
450	<u>Main Generator Circuit Breaker</u> <ul style="list-style-type: none">- Front access only- NEMA 1 rated- 2000AF insulated case circuit breaker, Fixed mounted, 480VAC, 65k AIC, UL891- LSIG trip, neutral sensor, 24VDC shunt trip, Form 'C' aux contacts- Copper ground bus- Metering CT's and PT's- CB open & close control by Generator Controller	1		
451	Cable connection, 480V, 2000A – Alternator output to Main CB via cable tray	X		
452	Exterior cable connection - Copper bus with NEMA pads/holes designed to accept customer cables and lugs	X		Designed for cable entry from ground level via externally-accessible connection box
453	ComAp Genset Controller, Gen start/stop/shutdown, sync, island, load share and adjustable base load modes of operation.	1		Allow access to control panel from outside of enclosure. As an option,

				provide additional/redundant ComAp interface on breaker cabinet to allow control from within enclosure.
454	<u>Transformer</u> - Connected to output of generator set - 480V:120/208V - Sized for 120/208V accessories	1		
455	<u>Load Center – 120/208V 3P/4W</u> - Sized for AC battery charger, alternator heaters, lighting, receptacles	1		Plug in breakers as required for 120V & 208V accessories
456	Light rail wiring tray – located at top of enclosure, EMT conduit drops and fittings	X		
457	Convenience Receptacles – GFCI, (1) double socket each side of Gen container, (1) near breaker/control cabinet	3		
458	Interior lighting, 120 VAC	X		
459	DC/emergency lighting – each side of container, above access/escape doors with timer.	2		
460	Light switches with weatherproof covers	3		
461	Engine Starting Batteries	4		
462	Battery Charger	2		
463	Battery Rack with spill containment	2		
464	Best Battery Diode System	1		
465	Jacket Water Heaters, 208VAC	2		
466	Shore power manual transfer switch	1		To power battery chargers and block heaters
467	Radiator Fan contactors & VFD(s)	1		Ideally 1 VFD for both all fans
468	Genset compartment contactors & VFD	1		1 VFD for all fans

Enclosure - OPTIONS

Group ID#500 - Enclosures

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
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500	ISO Enclosure: <ul style="list-style-type: none"> • 48' High Cube ISO Enclosure • Partial top enclosure for exhaust silencer & catalyst with dowel or other alignment method for easy on-site installation with light truck crane • Air intake and genset cooling system for operation at full load in ambient conditions up to 45 Deg C / 113 DegF 	1		Structurally-reinforced for weight of Genset. Design enclosure with recessed handles, no protrusions and capable of being optionally re-certified at 3Pi for sea shipment
501	<u>Exhaust Catalyst:</u> -3-way catalyst	1		Provided as part of EPA certified engine
502	<u>Silencer</u> - Exterior Mounted - Stainless Steel - Drain, fitting (no drain valve) - Industrial Grade	1		
503	<u>Exhaust Flex & Connections:</u> -Engine to Catalyst - Catalyst to Silencer	1		
504	<u>Exhaust Supports:</u> - Structural support system to mount silencer & catalyst within width constraints of ISO High Cube	1		System for easy rigging and connection of silencer on site using small truck crane
505	Exhaust stack – 4' extension with rain cap	1		Removable for shipment

Optional - Testing

Group ID#550 – Production Testing

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
551	Labor and materials for 4-hour load test at 0.8 pF	1		Run test on natural gas.
552	Alarm and shutdown verification testing	1		

Shipping

Group ID#575 – Shipping / Prep / Freight / Warranty

BOM Ref #	Description	PPPI Supply (Qty)	CUST. Supply (Qty)	Notes
575	Freight in of engine & generator	X		

Terms and Conditions of Sale

1. Taxes, if applicable, must be added to quoted price
2. 3PI Freight quotes are estimates at the time of the quote. Firm quotes can be provided at the time of shipment as freight rates will vary due to season, fuel prices and truck availability.
3. All prices quoted are FOB Factory and includes loading on truck for shipment. Tarping if required will need to be provided and installed by freight carrier (that will be hired by GeneratorJoe or Customer)
4. Payment terms, net 30 days after shipment, unless negotiated otherwise.
5. Cancellation charges
 - 10% after submittal is provided
 - 50% 1 week after submittal release
 - 100% 3 weeks after submittal release
6. For Sound attenuated projects, sound performance will be based on manufacturer's supplied data.
7. Start up/Field services are not included unless specifically stated in this quotation.
8. Priced quoted does not include participation of GeneratorJoe in any penalty clause in the buyer's contract with his/her customer.
9. Enclosure Package Delivery: Estimated delivery dates after receipt of all of the following items:
 - Purchase order and approved drawings: Approximately 12-14 weeks
 - Receipt of all customer supplied components: Approximately 4 weeks
 - Confirmed Exterior Paint color (needed 6 weeks prior to ship date)
10. FREIGHT NOTES FOR SCHEDULED FREIGHT
 - We are NOT responsible for delays or cost over-runs based on state permitting and load requirements or weather delays.
 - GeneratorJoe does not guarantee arrival of shipment(s) at a certain hour or date, under any circumstances – even when meeting a crane and we will not be responsible for back charges if a crane needs to be rescheduled.
 - All schedules provided by 3PI are best estimates and can change due to transportation, weather and any other factors beyond our control .
11. We can't hold the unit after it is ready to ship. Should we need to store the unit storage and crane offloading charges may apply. We will let the customer know these costs prior to billing.
12. Any externally mounted items that must be removed for shipment are to be re-installed by the installing rigger/contractor.