



Arrangement shown with optional trailer with pintle hitch.

## XQ400 SOUND ATTENUATED 60 Hz

### FEATURES



#### EMISSIONS

- EPA Tier II and CARB Emissions Certified for non-road mobile applications



#### CAT 3456 ATAAC DIESEL ENGINE

- Reliable, rugged, durable design
- Field-proven in thousands of applications worldwide
- Four-stroke-cycle diesel engine combines durability with minimum weight while providing dependability and economy



#### CAT SR4B GENERATOR

- Designed to match performance and output characteristics of Caterpillar diesel engines
- Optimum winding pitch for minimum total harmonic distortion and maximum efficiency
- Segregated AC/DC, low voltage accessory box provides single point access to accessory connections



#### ENCLOSURE

- Made with 12-gauge steel
- Single point lifting eye
- Sound attenuated
- Convenient hand holds and steps for safe operation

#### ENVIRONMENTALLY FRIENDLY DESIGN

- Sound attenuated for low noise operation
- OSHA compliant safe design
- Spill containment for coolant, oil and fuel

#### MULTI-VOLTAGE DISTRIBUTION PANEL

- Load door safety switch, engine faults, and shut down system
- Rust-free hinges on rear opening door
- Adequate space for line and plug connection without interference
- Remote start and stop contacts

#### SINGLE-SOURCE SUPPLIER

- Complete systems designed at Caterpillar ISO9001 certified facilities
- **Certified Prototype Tested** with torsional analysis

#### WORLDWIDE PRODUCT SUPPORT

- Worldwide parts availability through the Caterpillar dealer network
- With over 1,200 dealer outlets operating in 166 countries, you're never far from the Caterpillar part you need
- 99.5% of parts orders filled within 48 hours. The best product support record in the industry
- Caterpillar dealer service technicians are trained to service every aspect of your electric power generation system

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## FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

STANDARD FEATURES	
<b>Air Inlet System</b>	Air cleaner, dual element Turbocharger
<b>Charging System</b>	Battery charger Heavy duty charging alternator
<b>Control Panel</b>	Generator controls and monitoring Fuel tank monitoring Engine controls and monitoring Digital displays
<b>Cooling System</b>	Fan and belt guards Base mounted radiator
<b>Distribution Panel</b>	Lockable doors Individual bus bar connections Circuit breakers Remote start/stop contacts Shore power connections
<b>Enclosure</b>	Sound attenuated Load door safety switch, engine faults and shut down system 12-gauge steel Lockable doors Separate vented battery compartment Single point lifting arch Exterior oil and water drains Hidden exterior fuel drain Hand holds and steps
<b>Fuel System</b>	Primary fuel filter/water separator Spill containment dike 1780 L (470 Gal) dual wall fuel tank
<b>Generator</b>	Brushless, permanent magnet Coastal corrosion protection Shock mounted VR3 voltage regulator Space heater
<b>Mounting System</b>	Generator soft mounted to base Base contains integral fuel tank Skiddable structural steel design
<b>Starting System</b>	Electric starting motor Battery set with disconnect switch Jacket water heater with thermostat, shut-off valves

OPTIONAL FEATURES	
<b>Trailer</b>	Full frame support Independent tandem axle trailer frame with tongue Electric brakes with safety breakaway Full length fenders Non-skid surface on steps Heavy duty safety chains and grab hooks Reinforced 4540 kg (10,000 lb) top wind drop jack

## SPECIFICATIONS



### CAT SR4B GENERATOR

Frame size	450
Type	Permanent magnet brushless
Construction	Single bearing, close coupled
Three phase	12 lead reconnectable
Insulation	Class H with coastal insulation protection
IP rating	22
Alignment	Pilot shaft
Overspeed capability	
Prototype tested	150%
Production tested	125%
Wave form	Less than 5% deviation
Voltage regulator	3 phase sensing with Volts-per-Hertz no load
Voltage regulation	±½% steady state/±1% full load
TIF	Less than 50
THD	Less than 5%



### CAT ENGINE

3456 ATAAC, 4-stroke-cycle watercooled diesel	
Bore — mm (in) . . . . .	140 (5.5)
Stroke — mm (in) . . . . .	171 (6.75)
Displacement — L (cu in) . . . . .	15.8 (966)
Compression ratio . . . . .	16.0:1
Aspiration . . . . .	Turbocharged-ATAAC



### CAT CONTROL PANEL

<b>24 Volt DC Control</b>
NEMA 1, IP22 enclosure
Lockable hinged door
Generator instruments meet ANSI C-39-1
Enclosure mounted
Single location customer connector point

Consult your Caterpillar dealer for available voltages.



## TECHNICAL DATA

		XQ400	
Power Rating		Standby	Prime DM6125
60 Hz	ekW	400	365
Engine and Container Information Engine model Container dimensions		3456 ATAAC see chart on next page	
Shipping Weight (Dry) Unit with trailer Unit without trailer	kg (lb) kg (lb)	7620 (16,800) 6287 (13,860)	
Maximum Fuel Capacity Weight Unit with trailer Unit without trailer	kg (lb) kg (lb)	9280 (20,458) 7946 (17,518)	
Engine Lubricating Oil Capacity Engine Coolant Capacity with Radiator Fuel Tank Capacity	L (Qts) L (Gal) L (Gal)	38 (39.9) 64 (17) 1780 (470)	
Fuel Consumption with Fan Fuel Consumption (75% Prime) with Fan Running Time @ 75% Prime Sound Level	L/hr (Gal/hr) L/hr (Gal/hr) hours  dBA dBA	109.8 (29.0) 74.1 (19.6) 24  75.35 72.65	97.3 (25.7)
Standby No load @ 7 m (23 ft)			

## RATING DEFINITIONS AND CONDITIONS

### Meets or Exceeds International Specifications:

- ABGSM TM3, AS1359, AS2789, BS4999, BS5000, BS5514, DIN6271, DIN6280, EGSA101P, IEC34/1, ISO3046/1, ISO8528, JEM1359, NEMA MG1-22, VDE0530, 89/392/EEC, 89/336/EEC

**Standby** — Output available with varying load for the duration of the interruption of the normal source power. Standby power in accordance with ISO8528. Fuel stop power in accordance with ISO3046/1, AS2789, DIN6271, and BS5514.

**Prime** — Output available with varying load for an unlimited time. Prime power in accordance with ISO8528. 10% overload power in accordance with ISO3046/1, AS2789, DIN6271, and BS5514 available on request.

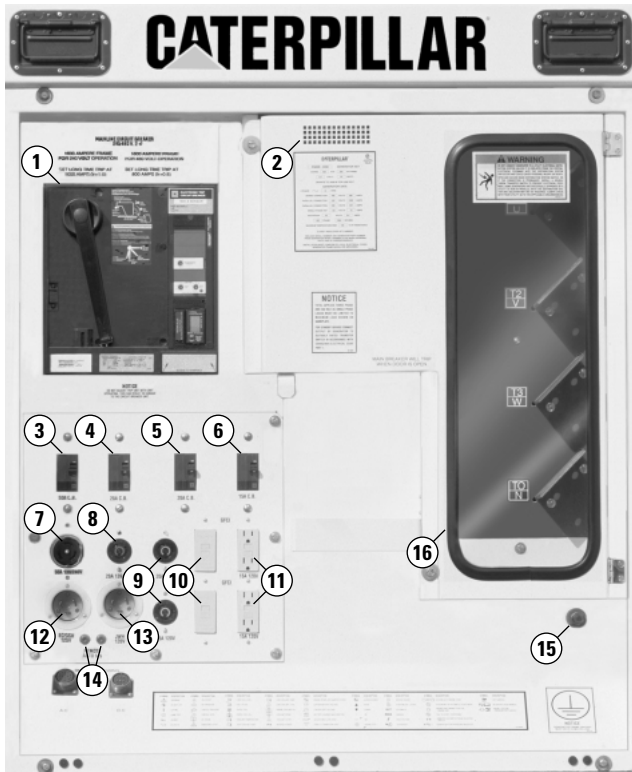
**Ratings** are based on SAE J1349 standard conditions.

These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions.

**Fuel rates** are based on fuel oil of 35° API [@ 16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for details.

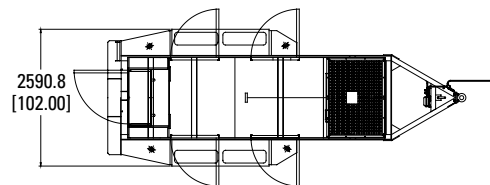
## DISTRIBUTION PANEL



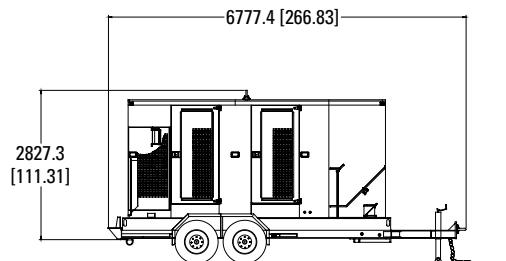
### Wiring Descriptions

1. 1600A main breaker 240V/480V with adjustable trip and 24V DC shunt trip
2. Voltage change over board
3. 50 amp 240V branch breaker
4. 20 amp 240V branch breaker
5. 20 amp 120V branch breaker
6. 15 amp 120V branch breaker
7. 50 amp 240V twistlock receptacle
8. 20 amp 240V twistlock receptacle
9. 20 amp 120V twistlock receptacle
10. 20 amp 120V ground fault interrupter
11. 15 amp 120V ground fault interrupter duplex receptacle
12. 30 amp 120V battery charger/generator space heater receptacle
13. 30 amp 120V JWH receptacle
14. Remote start/stop contacts
15. 12.7 mm (1/2") ground stud
16. Load connection bus board [6.35 mm × 101.6 mm × 101.6 mm (1/4" × 4" × 4") bus bars]

## CONTAINER DIMENSIONS — TOP VIEW



## CONTAINER DIMENSIONS — RIGHT SIDE VIEW



Package Dimensions				
	Enclosure		With Trailer	
<b>Length</b>	5080 mm	200 in	6777.4 mm	266.83 in
<b>Width</b>	1549 mm	61 in	2590.8 mm	102 in
<b>Height</b>	2827.3 mm	111.31 in	3302 mm	130 in

[www.CAT-ElectricPower.com](http://www.CAT-ElectricPower.com)

U.S. sourced

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The International System of Units (SI) is used in this publication.