



Arrangement shown with optional trailer with pinto hitch.

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

XQ400 SOUND ATTENUATED 60 Hz

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

FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

STANDARD FEATURES		OPTIONAL FEATURES
Air Inlet System	Air cleaner, dual element Turbocharger	
Charging System	Battery charger Heavy duty charging alternator	
Control Panel	Generator controls and monitoring Fuel tank monitoring Engine controls and monitoring Digital displays	
Cooling System	Fan and belt guards Base mounted radiator	
Distribution Panel	Lockable doors Individual bus bar connections Circuit breakers Remote start/stop contacts Shore power connections	
Enclosure	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	
Fuel System	Primary fuel filter/water separator Spill containment dike 1780 L (470 Gal) dual wall fuel tank	
Generator	Brushless, permanent magnet Coastal corrosion protection Shock mounted VR3 voltage regulator Space heater	
Mounting System	Generator soft mounted to base Base contains integral fuel tank Skiddable structural steel design	
Starting System	Electric starting motor Battery set with disconnect switch Jacket water heater with thermostat, shut-off valves	

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.....	±1% 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**

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

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

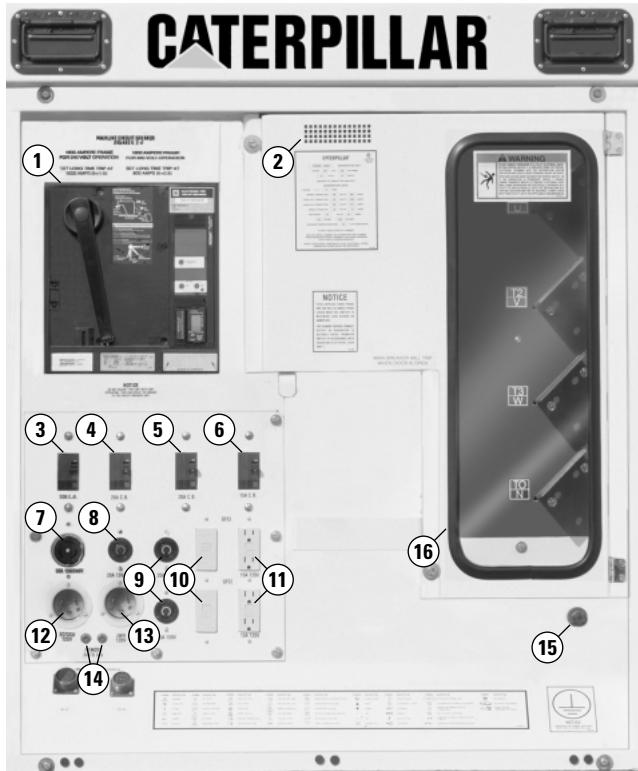
Standby — Output available with varying load for the duration of the interruption of the normal source power. Standby power in accordance with ISO8528. Fuel stop power in accordance with ISO3046/1, AS2789, DIN6271, and BS5514.

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.

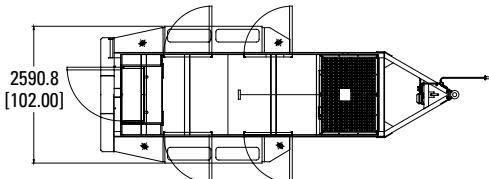
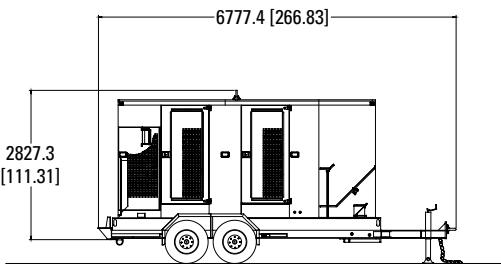
Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions.

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 (½") ground stud
16. Load connection bus board
[6.35 mm × 101.6 mm × 101.6 mm
(¼" × 4" × 4") bus bars]

CONTAINER DIMENSIONS — TOP VIEW**CONTAINER DIMENSIONS — RIGHT SIDE VIEW**

Package Dimensions			
	Enclosure	With Trailer	
Length	5080 mm	200 in	6777.4 mm
Width	1549 mm	61 in	2590.8 mm
Height	2827.3 mm	111.31 in	3302 mm
			130 in

www.CAT-ElectricPower.com

U.S. sourced

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 Materials and specifications are subject to change without notice.
 The International System of Units (SI) is used in this publication.