



Image shown may not reflect actual package.

## PRIME

**364 ekW 455 kVA  
50 Hz 1500 rpm 415 Volts**

Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

## FEATURES



### EMISSIONS

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

### FUEL/EMISSIONS STRATEGY

- Low fuel consumption

### COMPLETE, READY-TO-RUN SYSTEM

- Fully configured generator set
- Full range of attachments and options available

### SINGLE-SOURCE SUPPLIER

- Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities
- Fully prototype tested with certified torsional vibration analysis available

### WORLDWIDE PRODUCT SUPPORT

- Caterpillar® dealers provide extensive post sale support including maintenance and repair agreements
- Caterpillar dealers fill 99.7% of parts orders within 24 hours
- Caterpillar dealers have over 1,844 dealer branch stores operating in 166 countries
- The Cat® S•O•S<sup>SM</sup> program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products



### CAT® 3456 ATAAC DIESEL ENGINE

- Reliable, rugged, durable design
- Field-proven in thousands of applications worldwide
- Four-stroke-cycle diesel engine combines consistent performance and excellent fuel economy with minimum weight



### Caterpillar Generator

- Designed to match performance and output characteristics of Caterpillar diesel engines
- Two-thirds pitch minimizes harmonic distortion and facilitates parallel operation
- UL 1446 Recognized Class H Insulation System
- Load adjustment module provides engine relief upon load impact and improves load acceptance and recovery time

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## FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

System	Standard	Optional
Air Inlet	<ul style="list-style-type: none"> <li>• Modular air cleaner, single element</li> <li>• Service indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Dual element air cleaner</li> <li>• Heavy-duty air cleaner</li> <li>• Air inlet shutoff</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>• Radiator with guard sized for 50° C</li> <li>• Coolant level sight gauge</li> <li>• Coolant drain line with valve</li> <li>• Fan and belt guards</li> <li>• Low coolant level alarm or shutdown</li> <li>• Caterpillar Extended Life Coolant</li> </ul>	<ul style="list-style-type: none"> <li>• Jacket water heater with shutoff valves</li> <li>• Block heater</li> </ul>
Exhaust	<ul style="list-style-type: none"> <li>• Stainless steel exhaust flex and ANSI weld flange</li> <li>• 10 dBA muffler</li> <li>• NOx level of 2000 mg NOx/Nm3</li> </ul>	<ul style="list-style-type: none"> <li>• 25 dBA muffler</li> <li>• 35 dBA muffler</li> <li>• Elbow mounting and through-wall installation kits</li> <li>• Manifold and turbocharger guards</li> </ul>
Fuel	<ul style="list-style-type: none"> <li>• Primary and secondary fuel filters</li> <li>• Water separator</li> <li>• Fuel priming pump</li> <li>• Fuel pressure gauge</li> <li>• Flexible fuel lines</li> <li>• Fuel cooler</li> </ul>	<ul style="list-style-type: none"> <li>• Manual transfer pump</li> <li>• Choice of three automatic transfer systems</li> </ul>
Generator	<ul style="list-style-type: none"> <li>• Self excited</li> <li>• Class H insulation</li> <li>• Class H temperature rise (150°C standby/125°C prime)</li> <li>• 2/3 pitch</li> <li>• AVR with adjustable 1:1 or 2:1 Volts/Hz</li> <li>• Extension box</li> <li>• Reactive droop</li> <li>• Segregated low voltage wiring panel</li> <li>• Circuit breaker, IEC compliant, 3-pole with shunt trip</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent magnet</li> <li>• Digital Voltage Regulator</li> <li>• Digital Voltage Regulator with KVAR/PF control</li> <li>• Anti-condensation space heater</li> <li>• Oversize and premium generators (except 364 ekW Prime/400 ekW Standby)</li> <li>• Circuit breaker, IEC compliant 4-pole with shunt trip</li> </ul>
Governor	<ul style="list-style-type: none"> <li>• Electronic (ADEM™ II)</li> </ul>	<ul style="list-style-type: none"> <li>• Electronic load sharing</li> </ul>
Control Panels	<ul style="list-style-type: none"> <li>• EMCP II</li> </ul>	<ul style="list-style-type: none"> <li>• EMCP II+</li> <li>• EMCP II+ auto paralleling</li> <li>• Switchgear conversion</li> <li>• Local alarm and remote annunciator modules</li> <li>• Protective devices</li> <li>• Instrument package</li> </ul>
Lube	<ul style="list-style-type: none"> <li>• Lubricating oil and filter</li> <li>• Oil drain line with valves</li> <li>• Fumes disposal</li> <li>• Lube oil level indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Manual sump pump</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Formed steel base with integral fuel tank, 8 hour capacity - minimum</li> <li>• Linear vibration isolators between base and engine generator</li> </ul>	<ul style="list-style-type: none"> <li>• Wide base</li> <li>• Skid base</li> <li>• Extended capacity fuel tank base</li> </ul>
Starting/Charging	<ul style="list-style-type: none"> <li>• 45 amp charging alternator</li> <li>• 24 volt starting motor</li> <li>• Batteries with rack and cables</li> <li>• Safety shutoff protection (ADEM™ II control)</li> </ul>	<ul style="list-style-type: none"> <li>• Integral 5 and 10 amp battery chargers</li> <li>• Oversize batteries</li> <li>• Ether starting aid</li> <li>• Battery disconnect switch</li> </ul>
Other		<ul style="list-style-type: none"> <li>• Enclosures - sound attenuated, weather protective</li> <li>• Automatic transfer switches</li> <li>• Floor standing and package mounted circuit breakers</li> <li>• CE certification</li> </ul>

## SPECIFICATIONS

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### **CAT SR4B GENERATOR**

Frame size..... LC6114D  
Pitch..... 0.6667  
Number of poles..... 4  
Number of bearings..... 1  
Number of leads..... 12  
Overspeed capability..... 125% of rated  
Wave form..... 002.00  
Voltage Regulator. 3 phase sensing with adjustable 1:1 or 2:1 Volts/Hz, UL508A Listed  
Voltage Regulation..... Less than +/- 1/2% (steady state)  
Less than +/- 1% (no load to full load)  
Telephone Influence Factor..... Less than 50  
Harmonic distortion..... Less than 5%

### **CAT ENGINE**

3456 ATAAC, 4-stroke-cycle watercooled diesel  
Bore - mm..... 139.70 mm (5.5 in)  
Stroke - mm..... 171.50 mm (6.75 in)  
Displacement - L..... 15.83 L (966.01 in<sup>3</sup>)  
Compression ratio..... 16.1:1  
Aspiration..... Air-to-Air Aftercooled  
Fuel system..... Electronic unit injection  
Governor type..... Caterpillar ADEM control system

### **CAT CONTROL PANEL**

24 Volt DC Control  
NEMA 1, IP22 enclosure  
Electrically dead front  
Generator instruments meet ANSI C-39-1  
Terminal box mounted  
Single location customer connector point  
EC Compliant - segregated AC/DC connections and wiring  
Consult your Caterpillar dealer for available voltages.

**TECHNICAL DATA**

Open Generator Set - - 1500 rpm/50 Hz/415 Volts	DM6348	
<b>Low Fuel Consumption</b>		
<b>Package Performance</b> Genset Power rating @ 0.8 pf Genset Power rating with fan	455 kVA 364 ekW	
<b>Fuel Consumption</b> 100% load with fan 75% load with fan 50% load with fan	93.3 L/hr 68.7 L/hr 48.2 L/hr	24.6 Gal/hr 18.1 Gal/hr 12.7 Gal/hr
<b>Cooling System</b> Ambient air temperature Air flow restriction (system) Air flow (max @ rated speed for radiator arrangement) Engine Coolant capacity with radiator/exp. tank Engine coolant capacity Radiator coolant capacity	49 ° C 0.12 kPa 600 m <sup>3</sup> /min 54.5 L 20.8 L 33.7 L	120 ° F 0.48 in. water 21189 cfm 14.4 gal 5.5 gal 8.9 gal
<b>Exhaust System</b> Combustion air inlet flow rate Exhaust stack gas temperature Exhaust gas flow rate Exhaust flange size (internal diameter) Exhaust system backpressure (maximum allowable)	26.4 m <sup>3</sup> /min 508.9 ° C 73.2 m <sup>3</sup> /min 152.4 mm 6.7 kPa	932.3 cfm 948.0 ° F 2585.0 cfm 6.0 in 26.9 in. water
<b>Heat Rejection</b> Heat rejection to coolant (total) Heat rejection to exhaust (total) Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator	128 kW 327 kW 74 kW 20.0 kW	7279 Btu/min 18596 Btu/min 4208 Btu/min 1137.4 Btu/min
<b>Alternator</b> Motor starting capability @ 30% voltage dip Frame Temperature Rise	0 skVA LC6114D 125 ° C	257 ° F
<b>Lube System</b> Sump refill with filter	38.0 L	10.0 gal

Ambient capability at 200 m (660 ft) above sea level. For ambient capability at other altitudes, consult your Caterpillar dealer. Air flow restriction (system) is added to existing restriction from factory. Generator temperature rise is based on a 40° C (104° F) ambient per NEMA MG1-32.

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## RATING DEFINITIONS AND CONDITIONS

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**Meets or Exceeds International Specifications:** ABGSM TM3, AS1359, AS2789, BS4999, BS5000, BS5514, DIN6271, DIN6280, EGSA101P, IEC34/1, ISO3046/1, ISO8528, JEM1359, NEMA MG 1-22, VDE0530, 89/392/EEC, 89/336/EEC

**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. Prime power ambients shown indicate ambient at 100 percent load which results in a coolant top tank temperature just below the alarm temperature.

**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.

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## DIMENSIONS

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Package Dimensions		
Length	4182.0 mm	164.65 in
Width	1175.0 mm	46.26 in
Height	2214.2 mm	87.17 in
Weight	3698 kg	8,153 lb

Note: Do not use for installation design.  
See general dimension drawings for detail (Drawing #2433232).

Performance No.: DM6348

Feature Code:: 456DED3

Source:: European Sourced

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