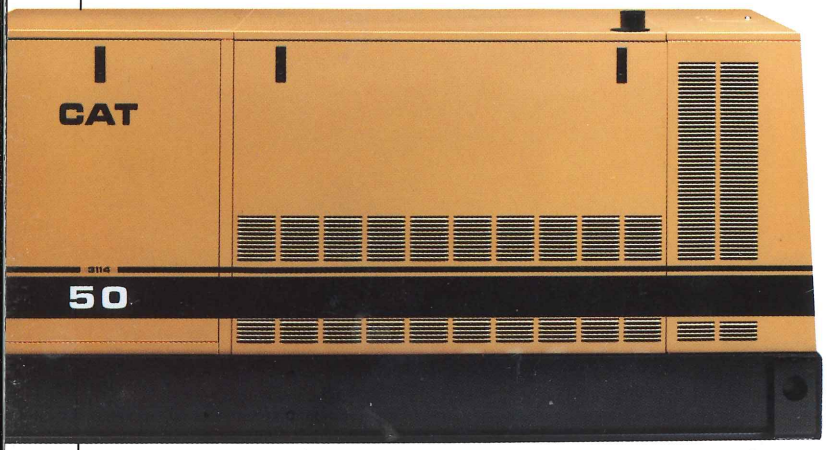
OWER

here you need it,
hen you need it

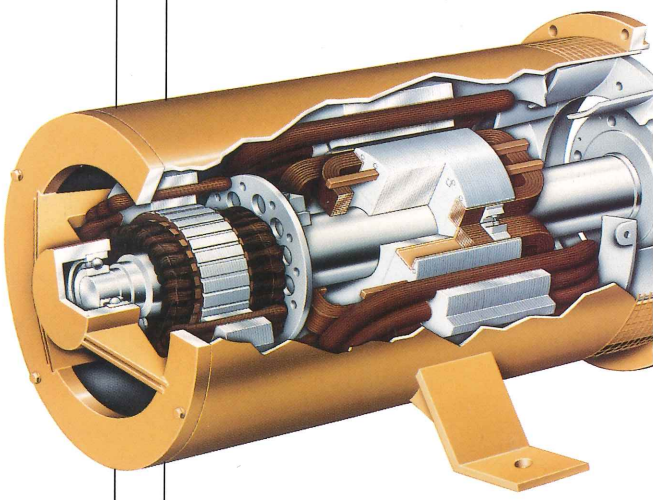
New Generation of Caterpillar
or Sets: Power up to 400 kW and
sized to your specific
electrical needs

Features of the New Generation

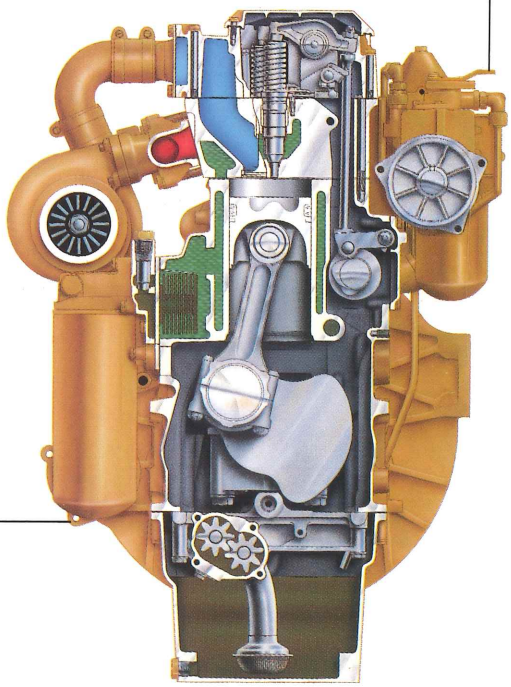
The New Generation of gen sets features a sleek, attractive, high tech package, designed for ease of installation, serviceability and long term customer satisfaction.

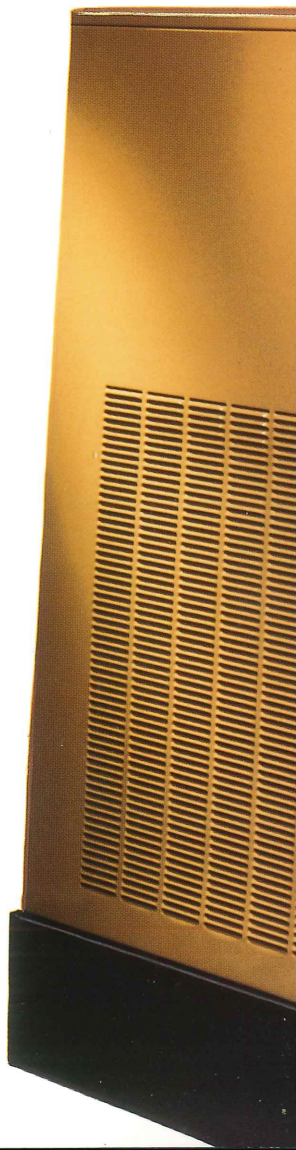


Adding to the value of the New Generation is an engine-matched series of generators designed to provide consistent, high-quality electricity. Cat SR 4 Generators have been proven in applications



A key element is the family of Caterpillar diesel Engines, known throughout the world as the premier source of quality power, featuring excellent reliability, exceptional performance and low fuel consumption. With the addition of the new 1.1 liter family of diesel engines, Caterpillar now offers competitively priced generator set packages down to 45 kW-60 Hz, 45 kVA 50 Hz.

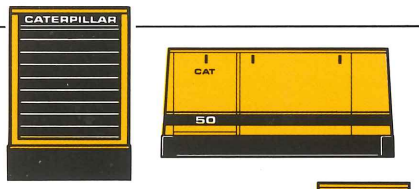




around the world, with standard features that many competitive generators don't have or only offer as options. The New Generation of generators offers:

- The highest quality electricity in the marketplace — total harmonic content is generally less than 2%, with no single harmonic exceeding 1.5%.
- Generator rotor is precision wet-layer wound, resulting in excellent environmental protection and high mechanical integrity.
- All stators get two dips and bakes in polyester varnish...providing excellent environmental protection. A four dip and bake option is available.
- Windings are tested for phase-to-phase and phase-to-ground faults by 3000-volt high pot test...significantly exceeds NEMA requirements.
- Voltage regulators are available with the following standard or optional features:
- all solid-state components for reliability.
- 3-phase sensing for optimum voltage control on unbalanced 3-phase loads.
- standard volts-per-Hertz regulation for optimum block loading and frequency recovery.
- gain adjustment for constant voltage across operating range to compensate for speed droop.
- paralleling capability.
- voltage regulation better than 1% from no load to full load.
- voltage adjustment range from -25% to +10% of rated.
- fully sealed for long life in harsh environments.
- manual voltage control for back-up operation.
- RFI filters to meet the strict standards of MIL-STD-461B and VDE 875N.

Caterpillar Electronic Modular Control Panels are available on all new Cat Generator Sets. The EMCP consists of a unique environmentally sealed, all solid-state microprocessor module for engine control and AC metering. Optional panel alarms and remote annunciators are also available. Some current specifications for sophisticated installations (especially with U.P.S. systems) call for current, voltage and frequency regulation of ±.5%, and sometimes the requirement is for True RMS metering. These features are standard on the EMCP. Typically electromechanical meters on control panels provide 2% accuracy. The superior digital accuracy of the EMCP (±.5%) makes it the only control panel on the market conforming to specifications being written today.



How to select your New Generation

Your local Caterpillar Dealer is ready, willing and able to work with you on gen set sizing, system design and the selection of controls and switchgear to assure proper operation. There's a wealth of technical assistance available from Cat Dealer EPG specialists...and it's yours for the asking.

Cat backs up The New Generation

Caterpillar has the most comprehensive dealer service network in the world, with over 1100 parts and service outlets around the globe and 22 strategically-located factory parts warehouses. In addition, your Caterpillar Dealer offers a variety of services aimed at making it easy for you and your design engineers to select, install and maintain Cat Diesel or Spark-Ignited Generator Sets. These services include:

- **Startup inspection and orientation** to assure proper equipment operation from the beginning.
- **Operator and service technician training classes** to help you get the highest efficiency out of your Cat Generator Set.
- **Preventive maintenance programs** to keep your generator set operating at peak efficiency and to extend engine life.
- **Diagnostic services,** like Scheduled Oil Sampling, to monitor component wear rates and spot potential problems before they occur.
- **Scheduled Repairs** to lower cost and maximize generator set availability.
- **Caterpillar Remanufactured and Dealer Exchange Components** make it possible to replace worn components with rebuilt ones that perform like new...saves time and money.
- **Comprehensive service contracts** to help control operating costs.
- **Caterpillar-qualified service personnel** at all Cat Dealerships are trained to provide fast, professional service.
- **Extensive dealer parts inventory,** computer-linked to the vast Caterpillar parts network, means parts are available when you need them.

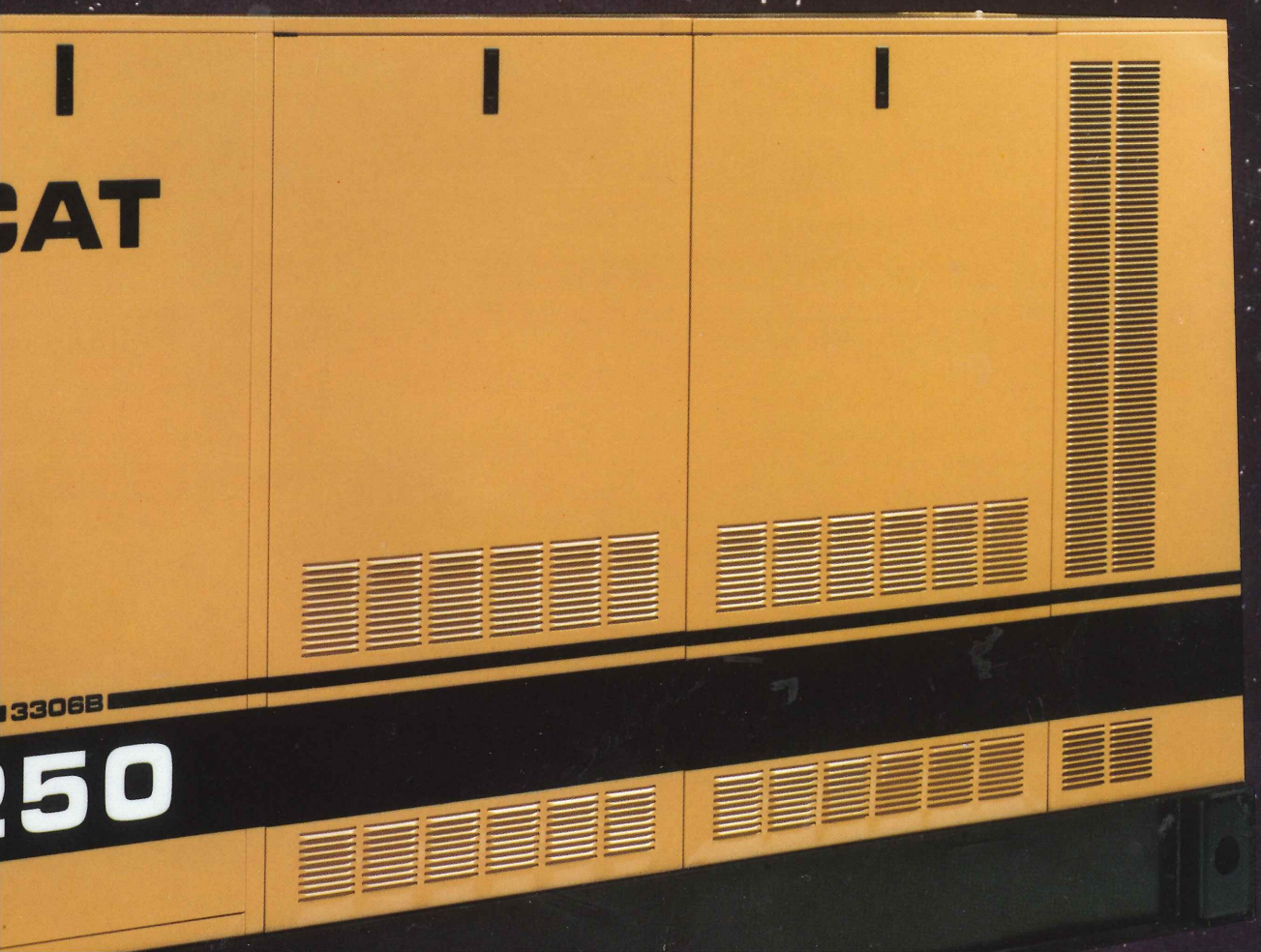
How to find out more

Contact your local Caterpillar Dealer for a free, no-obligation assessment of your on-site power generation needs. He'll be glad to supply you with all the information you need on how to get power...where you need it, when you need it.

CAT GEN SETS...*the Power of a New Generation*

troducing The New Generation

With a proven reputation for reliability
fuel efficiency — tens of thousands of Cat
erator Sets are in use worldwide — consultants,
neers and users agree: Cat Gen Sets are the
choice for electrical power value.



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