Information Sheet # 02

GenPower© PRODUCTS • INC

Your Reliable Guide for Power Solutions

To fulfill our commitment to be the leading supplier in the Power Generation Industry, the Gen Power Products, Inc. team ensures they are always up-to-date with the current Power Industry standards, as well as industry trends. As a service, our **Information Sheets** are circulated on a regular basis, to existing and potential Power Customers to maintain their awareness of changes and developments in standards, codes, and technology within the Power Industry.

Stationary Engine Generator Assemblies

UL2200 Certified

Stationary generator set installations, particularly those for emergency standby power, are frequently being specified to comply with UL2200. Specifying engineers are inclined to use UL2200 as the standard when writing generator set detailed specifications that are being issued. Many States, will not consider equipment that is not UL2200 certified. UL is recognized as the organization for health and safety testing.

This information sheet explains what UL2200 covers, why it came about, the benefits to the user, who is specifying UL2200, related codes, and sites to access for further information and key tests undertaken.

1) What does UL2200 cover: Stationary generator set installations rated 600 volts or less that would also be subject to the National Electrical Code NFPA-70, installation code NFPA-37 covering stationary combustion engines and gas turbines, Health Care Facilities to NFPA-99, and emergency standby power systems to NFPA-110. The purpose of UL is to set standards for health and safety of use.

2) Why have UL2200: Before the introduction of UL2200, an emergency standby set installation was an assembly of components that individually complied with a variety of codes and standards. However, there was no all embracing standard to cover a complete generator assembly. To ensure manufacturers and specifying engineers could work to a universal standard, UL2200 was developed. Site electrical inspectors now have a standard they can use that has been developed by a third party, independent to that of the manufacturers. Consulting engineers also have a standard they can specify that has met rigorous tests.

3) Who benefits from UL2200: The following parties benefit:

- Manufacturers have a universally accepted standard to meet, not open to interpretation, which creates a “level field” when bidding for an installation.
- Users know they are buying a certified product that has been tested and approved to meet rigid health and safety standards by a third party.

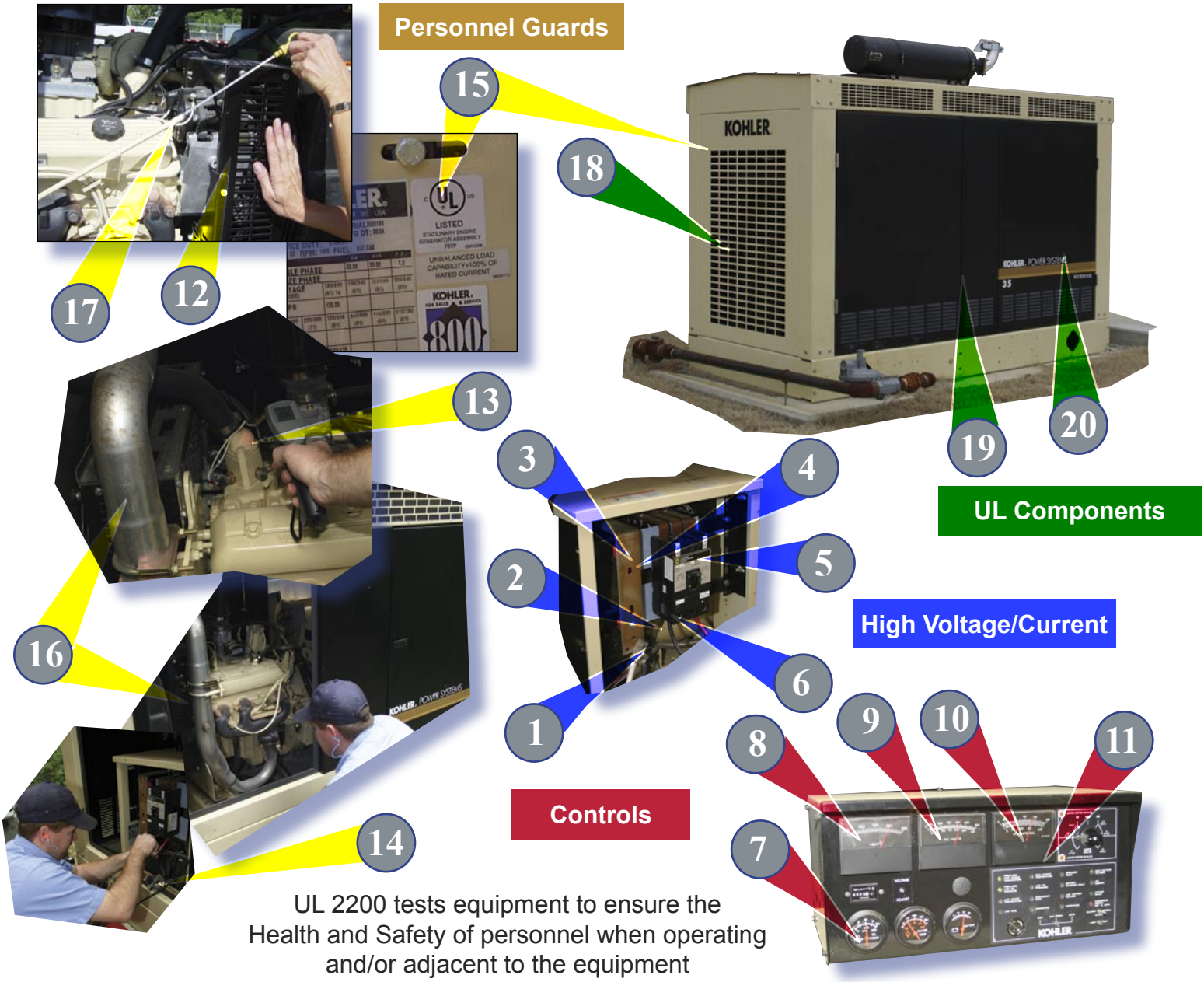
4) Who is specifying UL2200: As an accepted code, setting minimum requirements for health and safety of use of stationary generator assemblies, the following now specify and use UL2200 certification:

- State and City Inspectors
- Consulting/Specifying Engineers
- Federal Agencies

5) Related codes and sites to access for further information: UL2200 works closely with the National Fire Protection Association (NFPA), National Electrical Code (NEC), American Society of Mechanical Engineers (ASME), Institute of Electrical and Electronics Engineers, Inc. (IEEE) and National Electrical Manufacturers Association (NEMA). Visit www.UL.com for further details and links.

The installation information provided in this information sheet is informational in nature only, and should not be considered the advice of a properly licensed and qualified electrician or used in place of a detailed review of the applicable National Electric Codes and local codes. Specific questions about how this information may affect any particular situation should be addressed to a licensed and qualified electrician.

Typical Features & Tests Covered Under UL2200 Certification



UL 2200 tests equipment to ensure the Health and Safety of personnel when operating and/or adjacent to the equipment

Item	Test Description	Item	Features & Benefits of UL2200
1	Neutral to Ground Potential Reading	12	Personnel guards on all rotating components
2	Bonding Conductor	13	Safe temperatures maintained as designed
3	Bus Bar	14	Wiring insulated for safety and to UL1446
4	Grounding Impedance	15	UL certificate ensures health & safety tested
5	Overcurrent Protection Calibration	16	Hot exhaust surfaces guarded to ensure personnel protection during use & service
6	Terminal Strength Insulating Base & Support		
7	Overtemperature Protection	17	Guards do not corrode for lasting protection
8	Dielectric Withstand	Item	Sub-components having individual UL listing
9	Harmonic Distortion	18	Block Heaters
10	Output Volts/Frequency Fluctuation	19	Battery Chargers
11	Test of Spacing on Printed-Wiring Boards	20	Mainline Breakers

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GENPOWER PRODUCTS • INC

Gen Power Products, Inc. • 29905 Anthony Drive • Wixom, MI 48393 • Phone:(248) 624-7230 • Fax: (248) 624-6940 • www.genpowerproducts.com