IGSA POWER

DATA CENTER SOLUTIONS

IGSA POWER

OEM Genset Manufacturer for the Data Center Era

IGSA POWER is a market leader among **Original Equipment Manufacturers (OEM)** of diesel generator sets, with a legacy of excellence that dates back to 1970. For over five decades, we have consistently delivered high-performance power solutions across multiple industries, proudly **designing and manufacturing our own gensets** to meet the most demanding operational requirements.

In response to the rapid global growth of data centers, IGSA POWER has made a significant investment in the design and production of generator sets specifically engineered to meet the unique and critical needs of hyperscale and enterprise data center environments. These new gensets are built to ensure **reliability, scalability, and compliance with international standards**—featuring cutting-edge control systems, advanced emissions technologies, and integration capabilities for backup and mission-critical power applications.

To meet increasing demand, IGSA POWER has expanded its manufacturing facility, now capable of producing up to **40 generator sets per month ranging from 1 MW to 4.2 MW in capacity.** This expansion underscores our commitment to serving the growing data center market with speed, precision, and the highest quality standards.

The data center market in the United States and Canada continues to experience exponential growth, driven by surging demand for cloud computing, AI, big data, and digital transformation initiatives. As hyperscale operators and colocation providers race to build and scale infrastructure, the need for reliable backup power has never been more essential. IGSA POWER stands ready to support this momentum with robust, **UL-certified power solutions** designed to perform under the most critical conditions.

With over 50 years of experience and a forward-looking vision, IGSA POWER is the partner of choice for next-generation data center power infrastructure.

Data Center Products

Generator Sets

Manufacture and commercialization of Diesel and Natural Gas **Generator sets ranging from 1MW TO 4.2MW.**

E HOUSE

An E-HOUSE (electrical house) is a modular solution designed to house electrical and control equipment in one location.

SKIDS SOLUTIONS

Refers to a pre-assembled and modular system that integrates specific infrastructure components, such as cooling, power, or data distribution systems, into a single platform or structure.

ATS, SWITCHGEAR AND SWITCHBOARD

Low voltage switchgear engineered to deliver exceptional electrical distribution and protection for facilities.

Data Center Gensets

Founded in 1970, IGSA has over 55 years of experience in manufacturing generators. We are currently present in 17 countries with a network of more than 50 distributors, having produced over 80,000 generators throughout our company's history. Our factory, located in Mexico, operates with the latest technology in laser cutting, sheet steel bending and electrostatic powder painting, spanning **162,000 square feet and producing more than 1,000 generator sets per year.**

• Certifications

Due to our manufacturing quality we have attained the following certifications:

• Guaranteed

We guarantee the quality of our products by using only the highest quality components:

c UL us LISTED

EPA

MANAGEMENT SYSTEM CERTIFICATION
DNV·GL
ISO 9001 = ISO 14001
OHSAS 18001

We work with the best brands in the industry

MOTEURS Baudouin

STAMFORD | AvK ComAp marathon WEG Group Nidec LEROY-SOMER DSE

Data Center Generator Sets

BAUDOUIN

IGSA MODEL	STANDBY POWER		ENGINE MODEL	EPA	LOW VOLTAGE			MEDIUM VOLTAGE				
	KW	KVA			V			KV				
GSBD21000	1000	1250	12M33G8D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD21250	1250	1563	12M33G12D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD21500	1500	1875	16M33G2D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD21750	1750	2188	16M33G4D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD21800	1800	2250	20M33G2D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD22000	2000	2500	20M33G4D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD22300	2300	2875	12M55G4D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD22500	2500	3125	12M55G5D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD22640	2640	3300	16M55G2D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD22800	2800	3500	16M55G4D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD23000	3000	3750	16M55G6D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD23300	3300	4125	16M55G8D2/6	TIER 2	416	480	600	4.16	7.2	12.47	13.2	13.8
GSBD23600	3600	4500	20M55G4D2/6	TIER 2	N/A	480	600	4.16	7.2	12.47	13.2	13.8
GSBD23900	3900	4875	20M55G4D2/6	TIER 2	N/A	480	600	4.16	7.2	12.47	13.2	13.8
GSBD24200	4200	5250	20M55G4D2/6	TIER 2	N/A	480	600	4.16	7.2	12.47	13.2	13.8

Sound Attenuated Enclosures

IGSA POWER designs and manufactures custom-built weatherproof enclosures for generator sets, available in carbon steel and aluminum. These enclosures meet **Level 2 and Level 3** specifications and are certified to withstand wind speeds of up to 200 mph. They are engineered to deliver **noise levels ranging from 75 dBA to 85 dBA,** depending on the application. A wide range of optional features is available, including motorized louvers, AC and DC lighting, space heaters, internal emergency exit latches, camlock-equipped power panels, and emergency stop buttons, among others. Each enclosure is built to ensure optimal performance and safety, even under the most demanding environmental conditions.

Sub Base Fuel-Tanks

The IGSA POWER subbase fuel tanks are listed and manufactured under UL 142 standards. Every IGSA tank meets the structural and mechanical integrity requirements for installing your generator set directly on top of the tank. The tank is constructed of high-strength carbon steel and has a storage **capacity ranging from 100 to 15,000 gallons.** The tank's structure is designed to withstand external loads and resist corrosion, ensuring a long service life.

Standard Accessories

Genset Controller

- DSE7310 MKII
- InteliLite 4 MRS 16

Synchronising & Load Sharing Control Module

- DSE8610 MKII
- InteliGen4 200
- DSE Series G8

Battery Charger

- DSE9470 MKII
- SENS 10A Battery Charger NRG24-10-RC
- SENS 20A Battery Charger

Main Line Circuit Breaker

E-HOUSE

An **E-HOUSE (electrical house)** is a modular solution designed to house electrical and control equipment in one location. They are commonly used in industrial projects, mining, oil and gas, power generation, data centers, or anywhere a compact and mobile electrical hub is needed.

*Images for illustrative purposes.

MAIN FEATURES:

1. Pre-fabricated Design:

a. Built in a factory and then transported to the installation site.
b. Customizable based on client needs and project type.

2. Durable Materials:

a. Typically made with materials that withstand extreme weather conditions and harsh environments.
b. Includes protection against dust, moisture, corrosion, and vibrations.

3. Integrated Components:

a. Transformers.
b. Electrical distribution boards.
c. Control and automation systems (PLC, SCADA).
d. Communication and ventilation equipment.

4. Mobility:

a. Easy transportation to be relocated if necessary.

5. Quick Assembly:

a. Installed and put into operation faster than conventional construction.

BENEFITS:

1. Time and Cost Reduction:

a. Being pre-fabricated, they reduce construction time and allow operations to begin sooner.
b. Lower infrastructure and labor costs on-site.

2. Flexibility:

a. Adaptable to various industries and applications.
b. Scalable, allowing additional modules to be added as the project grows.

3. Increased Safety

a. Designed to meet international safety standards.
b. Systems ready to protect electrical equipment and operational personnel.

4. Turnkey Solution

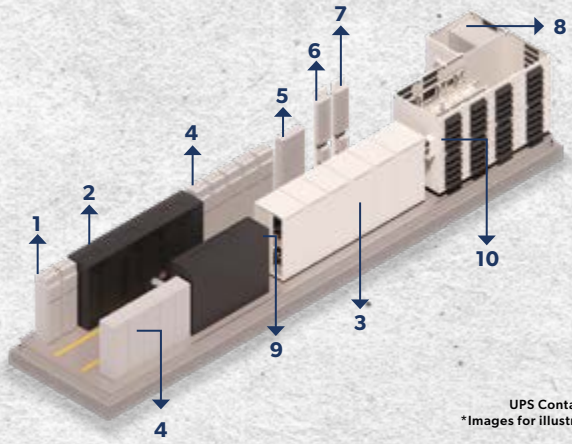
a. Everything is integrated into one module, simplifying installation and connection at the destination.

5. Efficiency in Remote Projects

a. Ideal for areas where building a facility from scratch would be complicated or expensive.

UPS Container - Interior
*Images for illustrative purposes.

EXAMPLE OF PARTS FOR A CUSTOM-DESIGNED UPS CONTAINER



UPS Container Equipment
*Images for illustrative purposes.

1. Battery Cabinet
2. UPS
3. Swichboard
4. Battery Cabinet
5. Maintenance Bypass
6. Panel
7. AC Panel
8. UPS Panel
9. Switch
10. VESDA Panel

SKIDS

A **SKID** refers to a pre-assembled and modular system that integrates specific infrastructure components, such as cooling, power, or data distribution systems, into a single platform or structure. These skids are **designed off-site** (in a factory) and then **transported to the data center** for quick installation.

For example, a cooling skid may include chillers, pumps, piping, and controls in a single compact unit, ready to be connected to the data center system. This allows for reduced installation time and minimized errors, as everything is built in a controlled environment before arriving on-site.

MAIN FEATURES:

1. Modular and Compact Design

a. Skids are pre-assembled systems in a compact structure that integrate multiple
b. They are easy to transport and fit into tight spaces within the data center.

2. Customization and Scalability

a. They can be designed according to the specific needs of the data center.
b. They facilitate the modular growth of the data center, as more skids can be added as capacity requirements increase.

3. Quick Installation

a. Since they are assembled off-site, skids significantly reduce installation time.
b. They arrive ready for connection, minimizing operational disruptions in the data center.

4. Cost Optimization

a. As they are manufactured in a controlled environment, costs associated with on-site errors and construction time are reduced.
b. They also save operational costs thanks to their energy efficiency.

5. Energy Efficiency

a. Skids are often designed with advanced technologies to optimize energy consumption, especially in cooling and power systems.

6. Simplified Maintenance

a. By grouping components in a single location, maintenance access becomes easier. Some skids have built-in monitoring systems to quickly detect failures.

7. Common Applications

a. **Cooling:** Chiller systems, pumps, and piping.
b. **Power:** Transformers, UPS (Uninterruptible Power Supply) systems, and batteries.
c. **Data Distribution:** Fiber networks or connection cables.

Switchboard/Switchgear/ATS

AMPACITY	100	150	200	250	400	600	800	1000	1200	1600	2000	2500	3200	4000

SWITCHBOARD AND SWITCHGEAR

Low voltage switchboard and switchgear engineered to deliver exceptional electrical distribution and protection for facilities. It is suitable for various markets that demand high reliability and safety.

KEY FEATURES

1. Modular Design

a. Streamlined, stackable structure for faster assembly.
b. Shorter lead times and optimized installation costs.
c. Flexible configurations with easy adaptability.

2. Reliable Performance

a. Guaranteed service continuity and long-lasting durability.

3. High Electrical Capacity

a. Short-circuit resistance up to 100kA for 1 second at 635V AC.
b. Supports continuous currents up to 6,000A for both main and vertical busbars.

4. Precision and Efficiency

a. Designed for seamless integration with low voltage devices to ensure precise and efficient operation.

5. Enhanced Insulation

a. Features dedicated insulators for improved safety and performance.

6. Space-Saving Design

a. Optimized dimensions to minimize installation space.

SWITCHBOARD
*Images for illustrative purposes.

SWITCHGEAR
*Images for illustrative purposes.

Facilities

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