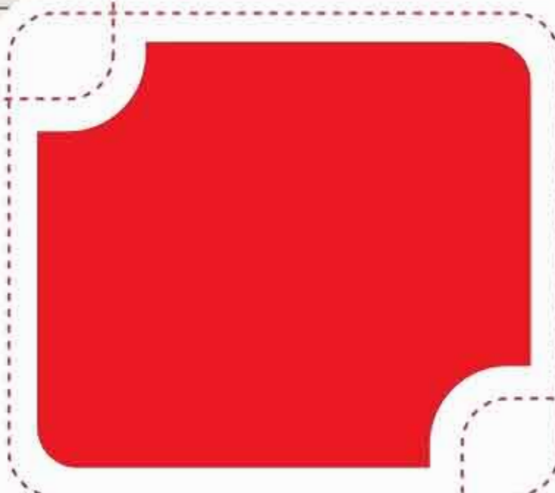




# Power Rental





## About JTC Power Rental

**Jassim Transport & Stevedoring Company K.S.C.C. (JTC)** was founded in 1979 in Kuwait as an inland transportation company. Over the years, JTC has transformed into a multi-industry organization spread all over the GCC and MENA region. Today, JTC is a highly dynamic and customer-focused organization with business interests primarily in four core areas: Ports Management, Contract Logistics, Equipment Leasing, and Power Rental.

**JTC Power Rental** is a leading provider of temporary power solutions in the Middle East. Our state of the art equipment, consisting of both off-the-shelf and customized systems, together with our team of highly qualified and experienced engineers and technicians, provide customers with complete end-to-end power rental solutions. We provide power solutions for:



- **Power Projects:** Rapid deployment of multi-megawatt, low or high voltage configurations for medium to long term projects, often in remote or hostile environments. We have a proven track record in running multi-megawatt projects in several GCC countries.
- **Oil Field:** Demanding reliable, continuous power, 24x7, 365 days a year on safety critical installations in remote locations.
- **Depot Power:** For all kinds of miscellaneous power requirements, for Prime, Standby or Peak Shaving applications.

JTC Power Rental takes immense pride in our excellent customer service standards. The core of our business strategy is differentiation based on high quality service to our customers, and we consider customer satisfaction our foremost priority.

Synergies through integration with the other JTC divisions:

- **JTC Equipment Leasing** is a leading rental provider of Cranes and other Industrial Equipment.
- **JTC Contract Logistics** offers services such as transportation, warehousing and open storage rental.
- **JTC Ports Management** division is the leading Ports operator in Kuwait's Shuwaikh and Shuaiba ports.



# Useful formulas

## Estimating Diesel Fuel Consumption

(KW) \* (57) = BTU per minute

Assume 140.000 BTU per gallon (US liq.) or 37.000 BTU/L diesel fuel and 35% electrical efficiency

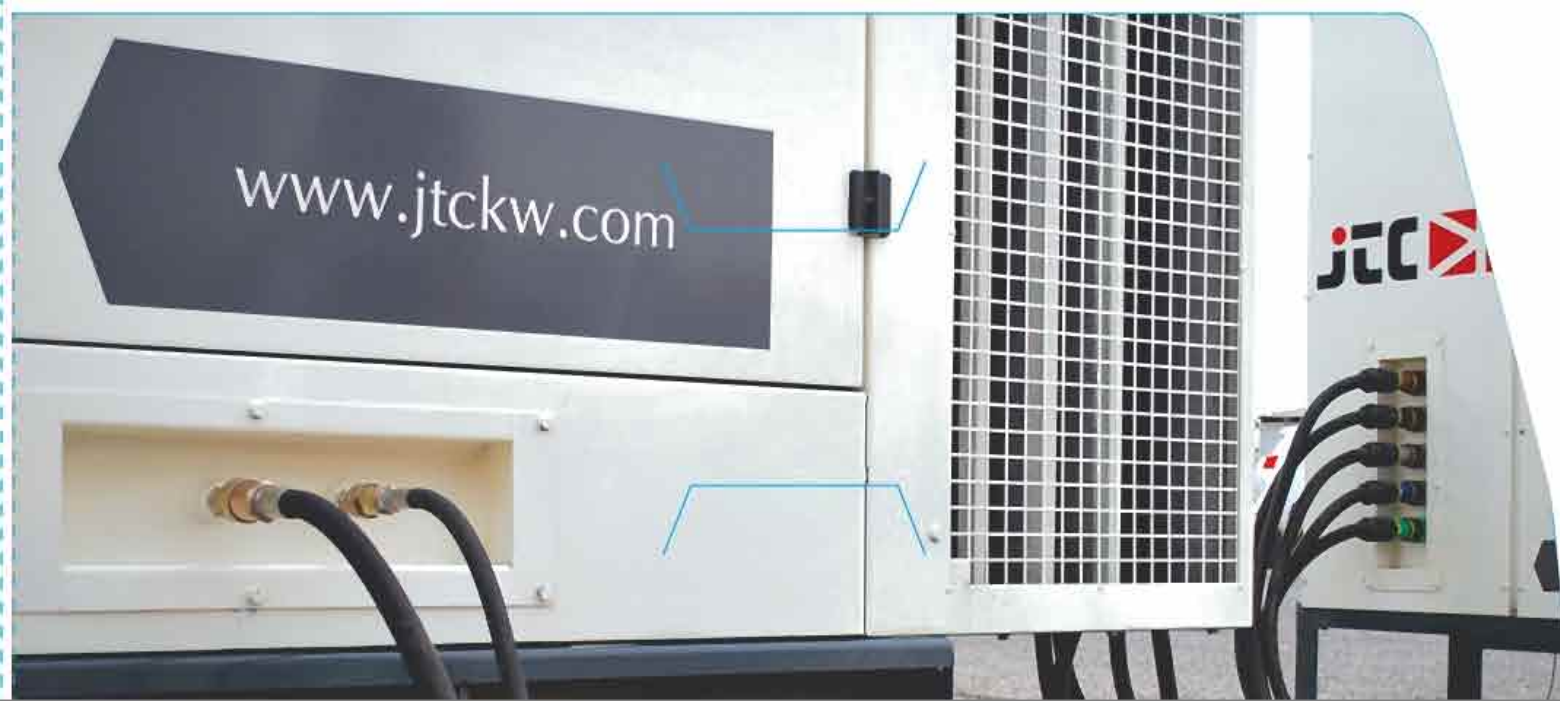
### Rule of Thumb:

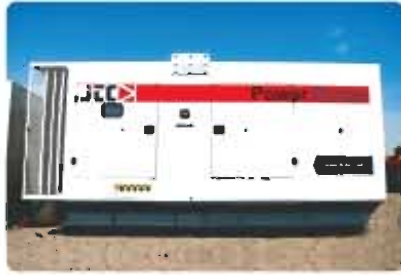
Multiply the KW times .07 results in the estimated fuel consumption (gph - US liq.)

Multiply the KW times .29 results in the estimated fuel consumption (litres per hour)

TO OBTAIN :	SINGLE-PHASE AC POWER	THREE-PHASE AC POWER
KILOWATTS (KW)	$\frac{\text{Volts} \times \text{Amps} \times \text{PF}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times \text{PF} \times 1.732}{1000}$
KVA	$\frac{\text{Volts} \times \text{Amps}}{1000}$	$\frac{\text{Volts} \times \text{Amps} \times 1.732}{1000}$
Amps (KVA unknown)	$\frac{\text{KW} \times 1000}{\text{Volts} \times \text{PF}}$	$\frac{\text{KW} \times 1000}{\text{Volts} \times \text{PF} \times 1.732}$
Amps (KW unknown)	$\frac{\text{KVA} \times 1000}{\text{Volts}}$	$\frac{\text{KVA} \times 1000}{\text{Volts} \times 1.732}$
Frequency (Hertz)	$\frac{\text{No. of Poles} \times \text{RPM}}{120}$	$\frac{\text{No. of Poles} \times \text{RPM}}{120}$
% Voltage regulation (for steady loads, from no-load to full load)	$\left( \frac{V_{NL} - V_{FL}}{V_{FL}} \right) \times 100\%$	$\left( \frac{V_{NL} - V_{FL}}{V_{FL}} \right) \times 100\%$
% Frequency regulation (for steady loads from no-load to full load)	$\left( \frac{F_{NL} - F_{FL}}{F_{FL}} \right) \times 100\%$	$\left( \frac{F_{NL} - F_{FL}}{F_{FL}} \right) \times 100\%$
Horsepower required to drive a generator	$\frac{\text{KW}}{0.746 \times \text{Generator efficiency}}$	$\frac{\text{KW}}{0.746 \times \text{Generator efficiency}}$
First cycle RMS short circuit current ( $\pm 10\%$ )	$\frac{\text{Rated Amperes}}{\text{pu} \times "d}$	$\frac{\text{Rated Amperes}}{\text{pu} \times "d}$

- "PF" refers to power factor, which is expressed as a decimal fraction. For example, 80% power factor = 0.8 for the purposes of calculations. In general, single-phase generator sets are rated at 100% power factor and three-phase generator sets at 80% power factor.





## Why JTC Power Rental?

**Unrivalled customer service:** JTC Power Rental has built a strong reputation in the Power Rental industry based on superior customer service. Customer satisfaction is our number one priority.

**High expertise:** Our experienced engineers and technicians are available to assist you at every stage of our relationship: solution planning & design, installation and commissioning, maintenance and service, technical support, and training programmes.

**Flexible and customized solutions:** JTC Power Rental uses modular, scalable components to provide you customized power solutions to best meet your unique requirements.

**Rapid mobilization:** JTC Power Rental's installation and commissioning teams will ensure that your power needs are met on time and without hassles.

**Ultra-Safe equipment:** We follow the highest world class safety standards in all our operations. Our Eco-Safe double skin bunded fuel tanks minimize spillage risks and provide an environment-friendly fuel storage solution.

**Clean and silent operations:** Our containerized generator sets operate at ultra-low noise levels and are well suited for critical noise installations. Standardized quick-fit fuel connectors enable quick, clean and safe fuel connections.



## Key elements of our customer service

### Optimized preventive maintenance:

Our preventive maintenance schedules ensure minimal downtime and maximum productivity.

### Guaranteed ultra-quick response:

In case of any breakdown, our technicians will reach your site within 1 hour of receiving your call at our 24x7 service hotline.

### PSVs:

A Power Service Vehicle (PSV) combines a mobile workshop with a small power plant to provide uninterrupted power supply during planned and unplanned maintenance services at critical installations.

### Mobile Workshops:

Our Mobile Workshops allow most maintenance activities to be done on site.

### MSUs:

Mobile Support Units are portable high capacity generators that provide emergency power in case there is a power failure at your site.

## Rent vs. Buy

Still confused whether to rent or buy? Here are some advantages of power rental over buying and running your own power equipment:

**Improved cash flow:** easily manageable operational expense, vs. huge initial capex for buying

**No indirect/hidden costs:** such as maintenance and spare parts

**Increased Flexibility:** to respond to changes in your business environment

**Better focus on core business operations:** by outsourcing power requirements to specialists

## GENERATORS:

- 15KVA to 1,250KVA Prime Power
- Synchronization & load sharing capabilities
- Engine: Cummins / Caterpillar
- Alternator: Stamford / Mecc Alte / Leroy-Somer
- Multi-function Digital Controller
- Dual frequency: 50/60Hz
- Inbuilt internal fuel tanks (8-10 hours operations)
- Fully automatic/remote operations
- Sound attenuated and weather protective enclosures
- Standardized quick-fit fuel connectors

## POWER ACCESSORIES:

- Synchronization Panel
- Distribution Panel
- Totalizing Panel
- Manual Transfer Switch
- Double Incomer Panel

## FUEL TANKS:

- Capacity Range: 500L – 30,000L
- Fully bunded ISO HC Container
- Designed as per UL 142 / BS 2594 standards
- Compliant with KNPC general design guidelines
- High quality welded steel construction
- Tested hydrostatically / pneumatically

## TRANSFORMERS:

- Capacity Range: 250KVA – 6,300KVA
- Compliant with IEC-60076 Standards
- Voltage Rating: 415V / 11KV
- HV Voltage: 5KV / 11KV / 12KV
- Oil immersion type
- Portable, containerized and skid types
- Equipped with GIS / MVSG 11,000 Volts
- Equipped with Schneider VIP300
- ONAN cooling
- Vector Group: Dyn11





## Product & Service Offerings

### Generators & Accessories

#### Generators

- Small capacity models to large 1MW+ units scalable to multi mega watt configurations.
- Rugged, durable machines built to run continuously 24x7 in extreme weather conditions.
- Completely safe to operate in sensitive areas such as oil fields, power plants & hospitals.
- Fuel efficient, environment friendly and acoustically optimized, meeting global standards.

Fuel Tanks: safe and environment-friendly fuel tanks of different types and capacities.

Other Power accessories: e.g. Transformers, Distribution Panels, Double Incomers, Cables.

**Engineering Design & Consulting:** we help you design and implement small to medium size power projects of different types of configurations based on your requirements.

**Installation & Commissioning:** our engineers and technicians help in optimal installation of power sites to ensure maximum safety, reliability and convenience.

**Power Maintenance & Support:** we offer best in class maintenance services for power equipment owned by clients. We also offer training programmes for client personnel.

**Project Management:** we are experienced in managing and executing power projects of all sizes.



شركة جاسم للنقل والمناولة  
Jassim Transport & Stevedoring Co. R.S.C.C.



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Jassim Transport & Stevedoring Co. K.S.C.C.

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- Contract Logistics
- Equipment Leasing
- Power Rental

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