

GULFPOWER

ELECTRICAL POWER GENERATORS

Reliable Power Generation

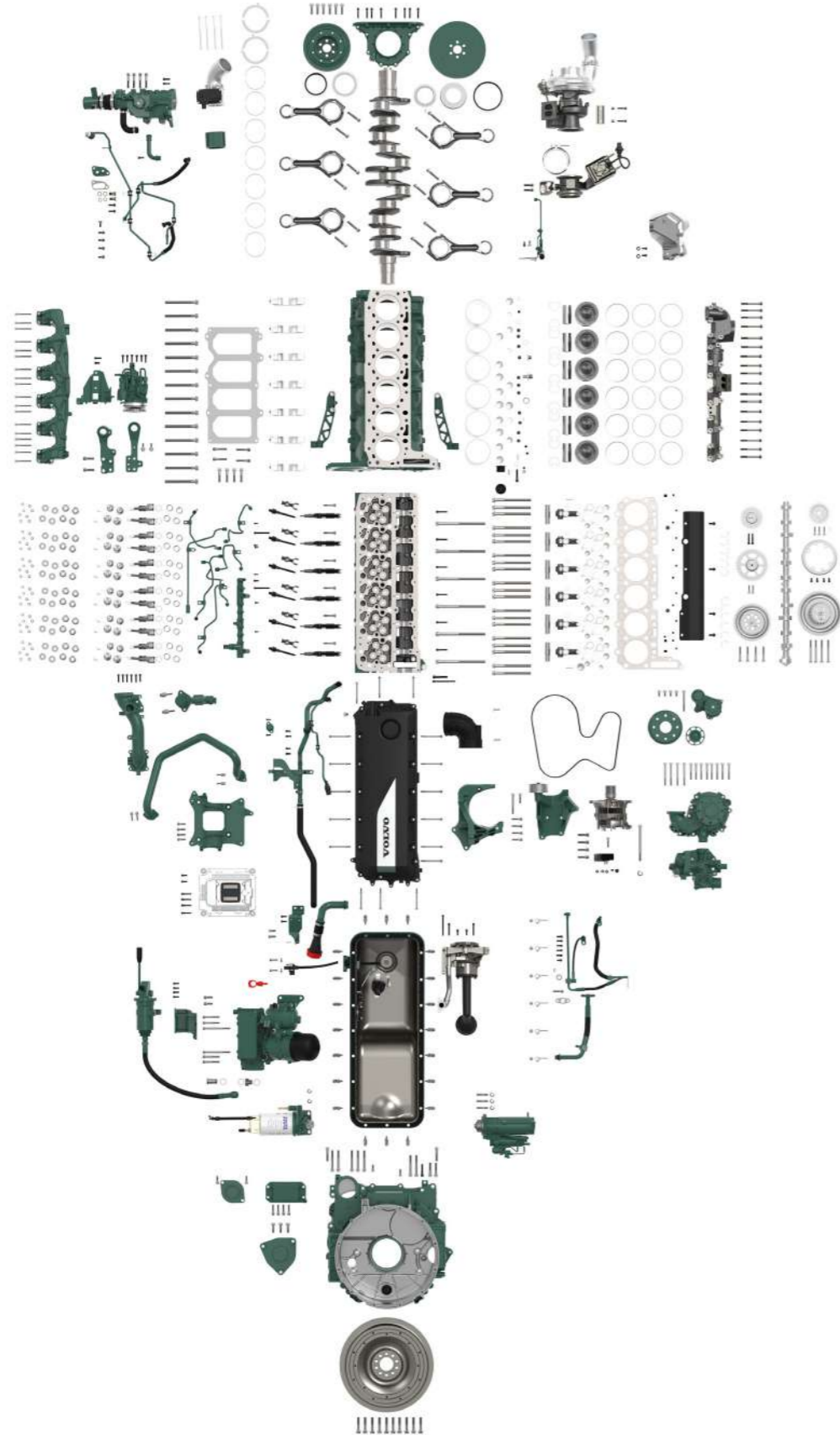


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Proudly we are serving
the most important place
in **Saudi Arabia** , Makkah



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Why **GULFPOWER** ?

ELECTRICAL POWER GENERATORS

1. International Company

GULFPOWER is part of alkhoraief group that was founded in 1957. Since then , it has become a leading, strong and well established corporation with successful diversified activities such as power system, petroleum & irrigation in Saudi Arabia and on the region enjoying a strong reputation for quality and service along with strong international presence, operating in over 40 countries and 6 continents .

2. Proudly a Saudi Product

Along with the vision 2030 by supporting the local context , **GULFPOWER** genset are proudly assembled in Saudi Arabia and achieving the highest quality .

3. After Sales Services

Through Dedication and quality of after sales services , **GULFPOWER** has the most qualified team to support you , along with 12 branches in Saudi Arabia and international presence .

4. International Standards

GULFPOWER genset designed the highest quality and safety standard by being the first factory in Saudi Arabia the achieving Quality mark certificate from Saudi Standards, Metrology and Quality Organization (**SASO**) , And complying with **ISO8528** , **ISO9001:2015** , **ISO14001:2015** , **OHSAS 18001:2007** , and many additional quality and safety certificates such as **UL 2200** (UL Listed Genset) , **Seismic** Certificate according to **IBC2009, 2012,2015,2018, EC8 2004.**

5. Genset designed for harsh environment

GULFPOWER genset designed to handle the harsh weather in MENA region specially in Saudi Arabia , GCC , Sudan , and Egypt (Hot weather and high humidity)

6. Turnkey Solution

For over 6 decades , we have been providing our customers with satisfaction , and considering our customer as our partners of success .

We can support our partners with the turnkey solution and we can make all of the customer requirements by supplying the genset and all of required accessories along with making the required installation for it by following the highest quality.

7. Single Source Responsibility

GULFPOWER Provides one-Source responsibility for the diesel generator sets, panels, (ATS, SYNC, MDB) , Accessories (Fuel System, Tanks, cables ... etc) , Genset rental, special studies and turnkey installation project .

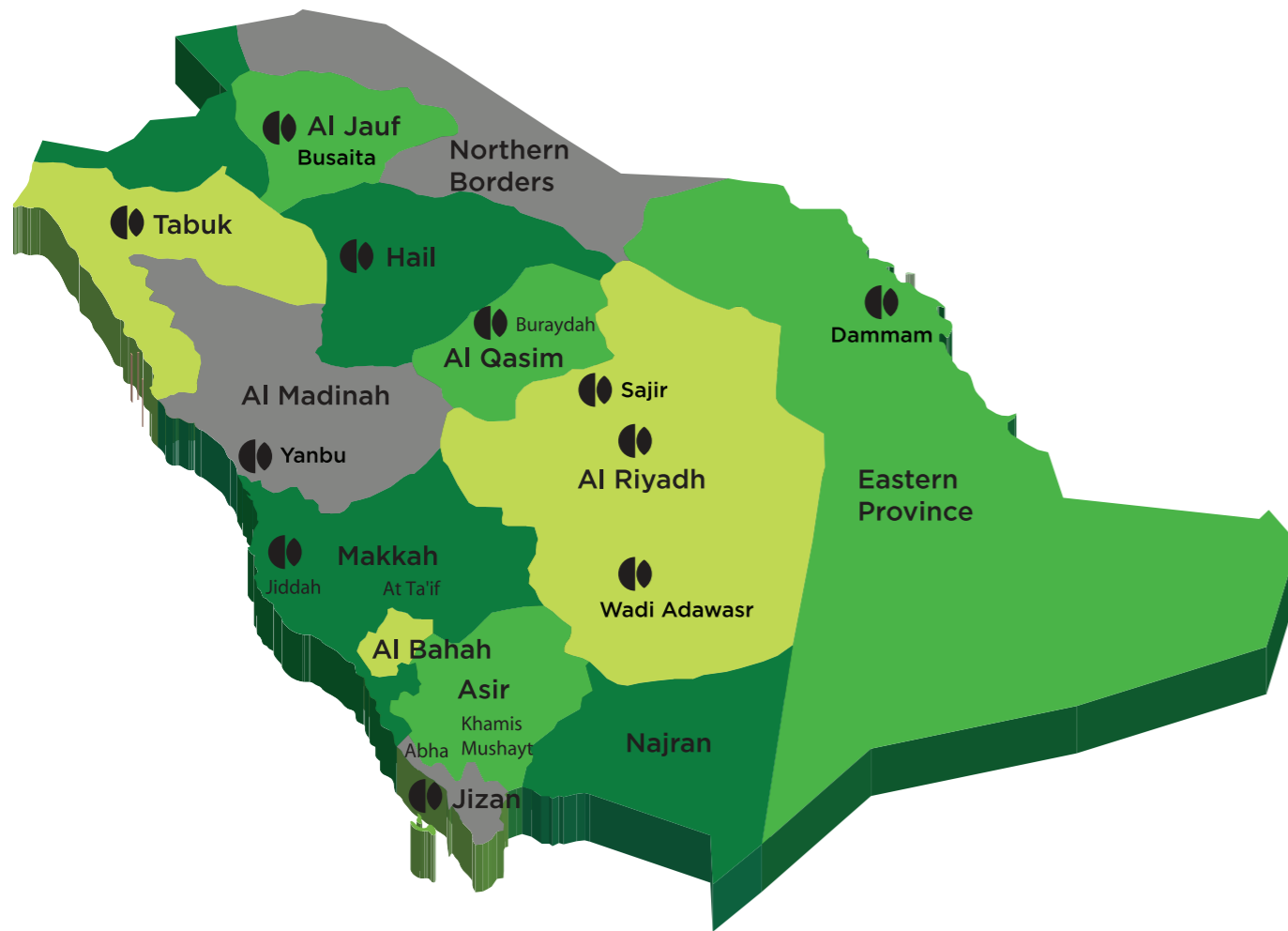
8. Research and Development department (R&D)

GULFPOWER has it's own R&D and Engineering team experts along with direct contact with the most famous manufacturer such as (Volvo Penta, John Deere, Cummins, Perkins, Lister Peter, Mitsubishi, Deutz, to make the perfect design for the genset matching the customer requirements with the best solution.

OUR BRANCHES

Customer Satisfaction is what we strive for !

We have branches distributed strategically all over the Kingdom of Saudi Arabia to reach out to Customers on a single call.



AT YOUR
SERVICE
WITH 12 BRANCHES
ALL OVER THE
KINGDOM

- Busaita
- Al Jouf
- Tabouk
- Hail
- Buraidah
- Sajir
- Riyadh
- Yanbu
- Jeddah
- Jizan
- Dammam
- Wadi Adawasir

Specification and Options

GULFPOWER offers a comprehensive range of mechanical and electrical options for all generator sets.

Special requirements

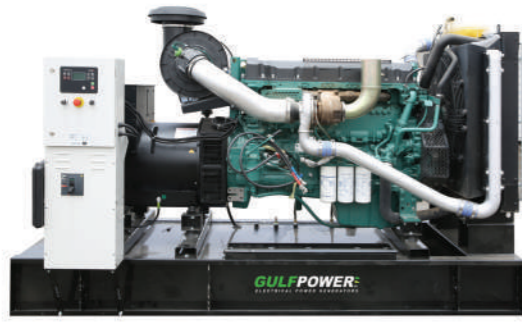
If you do not see exactly what you want, contact our sales department or local regional sales office. We can meet special requirements such us:

- Generator sets in excess of 3400kVA or less than 11 kVA
- Multi-set installations
- MV generation
- Stringent noise levels
- Remote cooling
- Bespoke control panels using alternative generator set controllers
- Special acoustic enclosure design
- Alternative engine and alternator combinations
- Remote Control and Telemetry



OUR Range

60 HZ



60 Hz Generator Set Power (kVA)



RATING DEFINITIONS:

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application factor 70% of the prime rating in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation, or not to exceed 500 hours per year.

Standby Power (ESP)

These Ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of 200 hours per year. No overload is available. All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS:






Output ratings are based on gensets operating at: 40 C° (104 F) ambient temperature, 630 m (2067 ft) altitude & 30% relative humidity.

(Please Consult **GULFPOWER** team in case of higher temperature or altitude required).

NOTE:

All data in accordance with ISO3046, DIN6271, ISO8528 standards, SASO. Other voltages available, please refer to Data Sheet or consult **GULFPOWER** Sales Department. Specifications and design subject to change without notice.

GULFPOWER 60 Hz Range

Genset Model	Genset Standby Power		Genset Prime Power		Engine Model	No. of Cylinder	Displacement Lite, (in ³)	Fuel Consumption at 100% Standby Load (l/hr)
	(KVA)	(KW)	(KVA)	(KW)				
GPL 60 Hz - 3 Phase 400 V (Powered By )								
GPL0009-60	9	7	8	6	LPW2	2 inline	0.9 (56.75)	2
GPL0015-60	15	12	13	10	LPW3	3 inline	1.4 (58.13)	3
GPL0022-60	22	18	20	16	LPWX4	3 inline	2.0 (121.9)	5
GPP 60 Hz - 3 Phase 400 V (Powered By )								
GPP0038-60	38	30	35	28	1103A-33G	3 inline	3.3 (201)	10
GPP0059-60	59	47	53.1	42	1103A-33TG1	3 inline	3.3 (201)	14
GPP0075-60	75	60	67.5	54	1103A-33TG2	3 inline	3.3 (201)	18
GPP0084-60	84	67	76	61	1104A-44TG1	4 inline	4.4 (268.5)	20
GPP0100-60	100	80	90	72	1104A-44TG2	4 inline	4.4 (268.5)	24
GPJ 60 Hz - 3 Phase 400 V (Powered By )								
GPJ0033-60	33	26	29	23	3029DFU20	3 inline	2.9 (177)	9
GPJ0050-60	50	40	45	36	3029TFU20	3 inline	2.9 (177)	13
GPJ0070-60	70	56	65	52	3029HFU20	3 inline	2.9 (177)	21
GPJ0088-60	88	70	80	64	4045TF158	4 inline	4.5 (276)	21
GPJ0100-60	100	80	90	72	4045TFU20	4 inline	4.5 (276)	30
GPJ0125-60	125	100	120	96	4045HF158	4 inline	4.5 (276)	31
GPJ0155-60	151	121	138	110	6068TF258	6 inline	6.8 (414)	36
GPJ0170-60	170	136	150	120	6068HFU20_A	6 inline	6.8 (414)	46
GPJ0203-60	203	162	184	147	6068HF158	6 inline	6.8 (414)	47
GPJ0227-60	227	182	204	163	6068HFU20	6 inline	6.8 (414)	52
GPV 60 Hz - 3 Phase 400 V (Powered By )								
GPV0265-60	265	212	250	200	TAD734GE	6 inline	7.15 (436.0)	59
GPV0369-60	369	295	334	267	TAD1341GE-B	6 inline	12.78 (779.7)	73
GPV0400-60	400	320	364	291	TAD1342GE-B	6 inline	12.78 (779.7)	80
GPV0445-60	445	356	411	329	TAD1343GE-B	6 inline	12.78 (779.7)	88
GPV0500-60	500	400	465	372	TAD1344GE-B	6 inline	12.78 (779.7)	94
GPV0535-60	535	428	507	406	TAD1640GE-B	6 inline	16.12 (983.9)	108
GPV0645-60	645	516	574	459	TAD1641GE-B	6 inline	16.12 (983.9)	135
GPV0656-60	656	525	623	498	TAD1642GE-B	6 inline	16.12 (983.9)	138
GPV0713-60	713	570	673	538	TWD1643GE	6 inline	16.12 (983.9)	148
GPV0715-60	715	572	673	538	TWD1644GE	6 inline	16.12 (983.9)	148
GPV0800-60	800	640	727	582	TWD1645GE	6 inline	16.12 (983.9)	155
GPC 60 Hz - 3 Phase 400 V (Powered By )								
GPC0994-60	1000	800	909	727	QSK23G3	6 inline	23.15 (1413)	212
GPC1230-60	1230	984	1150	920	QST30G4	12 V	30.48 (1860)	267
GPC1565-60	1565	1252	1400	1120	KTA50G3	16 V	50.3 (3067)	330
GPC1845-60	1845	1476	1608	1286	KTA50G9	16 V	50.3 (3067)	392
GPC2500-60	2500	2000	2280	1824	QSK60G6	16 V	60.2 (3673)	521
GPC3400-60	3400	2720	3125	2500	QSK78G8	18 V	77.6 (4735)	701

* Other engines models and rating are available based on special request, please consult GULFPOWER team for more information.

OUR Range

50 HZ



50 Hz Generator Set Power (kVA)



RATING DEFINITIONS:

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application factor 70% of the prime rating in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation, or not to exceed 500 hours per year.

Standby Power (ESP)

These Ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of 200 hours per year. No overload is available. All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS:

Output ratings are based on gensets operating at: 40 C° (104 F) ambient temperature, 630 m (2067 ft) altitude & 30% relative humidity.

For de-rating, please consult Alkhorayef Sales Department.






NOTE:

All data in accordance with ISO3046, DIN6271, ISO8528 standards.

Other voltages available, please refer to Data Sheet or consult Alkhorayef Sales Department. Specifications and design subject to change without notice.

Please Note all dimensions, weights and capacities are for guidance only.

GULFPOWER 50 Hz Range

Genset Model	Genset Standby Power		Genset Prime Power		Engine Model	No. of Cylinder	Displacement Liter, (in ³)	Fuel Consumption at 100% Standby Load (l/hr)
	(KVA)	(KW)	(KVA)	(KW)				
GPL 50 Hz - 3 Phase 400 V (Powered By )								
GPL0007-50	7	6	6	5	LPW2	2 inline	0.9 (56.75)	2
GPL0011-50	11	9	10	8	LPW3	3 inline	1.4 (58.13)	3
GPL0018-50	18	14	16	13	LPWX4	4 inline	2.0 (121.9)	4
GPP 50 Hz - 3 Phase 400 V (Powered By )								
GPP0033-50	33	26	30	24	1103A-33G	3 inline	3.3 (201)	8
GPP0050-50	50	40	45	36	1103A-33TG1	3 inline	3.3 (201)	12
GPP0066-50	66	53	60	48	1103A-33TG2	3 inline	3.3 (201)	16
GPP0072-50	72	58	65	52	1104A-44TG1	4 inline	4.4 (268.5)	17
GPP0088-50	88	70	80	64	1104A-44TG2	4 inline	4.4 (268.5)	21
GPJ 50 Hz - 3 Phase 400 V (Powered By )								
GPJ0026-50	26	21	25	20	3029DFU20	3 inline	2.9 (177)	9
GPJ0044-50	44	35	40	32	3029TFU20	3 inline	2.9 (177)	12
GPJ0060-50	60	48	54	43	3029HFU20	3 inline	2.9 (177)	13
GPJ0075-50	75	60	67	54	4045TF158	4 inline	4.5 (276)	18
GPJ0086-50	86	69	77	62	4045TFU20	4 inline	4.5 (276)	30
GPJ0115-50	115	92	98	78	4045HF158	4 inline	4.5 (276)	25
GPJ0129-50	129	103	120	96	6068TF258	6 inline	6.8 (414)	30
GPJ0165-50	165	132	148	118	6068HFU20_A	6 inline	6.8 (414)	44
GPJ0169-50	169	135	153	122	6068HF158	6 inline	6.8 (414)	46
GPJ0202-50	202	162	183	146	6068HFU20	6 inline	6.8 (414)	48
GPV 50 Hz - 3 Phase 400 V (Powered By )								
GPV0265-50	265	212	246	197	TAD734GE	6 inline	7.15 (436.0)	57
GPV0346-50	346	277	316	253	TAD1341GE-B	6 inline	12.78 (779.7)	68
GPV0370-50	370	296	330	264	TAD1342GE-B	6 inline	12.78 (779.7)	75
GPV0413-50	413	330	379	303	TAD1343GE-B	6 inline	12.78 (779.7)	83
GPV0456-50	456	365	412	330	TAD1344GE-B	6 inline	12.78 (779.7)	91
GPV0509-50	509	407	463	370	TAD1640GE-B	6 inline	16.12 (983.9)	104
GPV0559-50	559	447	509	407	TAD1641GE-B	6 inline	16.12 (983.9)	113
GPV0636-50	636	509	595	476	TAD1642GE-B	6 inline	16.12 (983.9)	133
GPV0705-50	705	564	635	508	TWD1643GE	6 inline	16.12 (983.9)	143
GPV0710-50	710	568	670	536	TWD1644GE	6 inline	16.12 (983.9)	143
GPV0773-50	773	618	705	564	TWD1645GE	6 inline	16.12 (983.9)	150
GPC 50 Hz - 3 Phase 400 V (Powered By )								
GPC850-50	850	680	800	640	QSK23G3	6 inline	23.15 (1413)	178
GPC1090-50	1090	872	1000	800	QST30G4	12 V	30.48 (1860)	224
GPC1385-50	1385	1108	1260	1008	KTA50G3	16 V	50.3 (3067)	293
GPC1650-50	1650	1320	1400	1120	KTA50G8	16 V	50.3 (3067)	345
GPC2170-50	2170	1736	2000	1600	QSK60G4	16 V	60.2 (3673)	437
GPC3000-50	3000	2400	2600	2080	QSK78G9	18 V	77.6 (4735)	569

* Other engines models and rating are available based on special request, please consult GULFPOWER team for more information.

Confirmation Letter



UL CUSTOMER ALKHORAYEF COMMERCIAL COMPANY - POWER SYSTEMS DIVISION
P.O.BOX 281808
RIYADH, 11392 Saudi Arabia

UL CUSTOMER FILE # AU6385
CATEGORY ENGINE GENERATORS | FTSR

December 24, 2019

As of the above date, UL LLC confirms that ALKHORAYEF COMMERCIAL COMPANY - POWER SYSTEMS DIVISION is the party associated with UL File # AU6385 that appears in the UL Product iQ platform. Public information contained in UL File # AU6385 can be viewed using the following link:

<https://iq.ulprospector.com/en/profile?e=611408>

The appearance of a company's name or a specific product/component designation in the UL Product iQ platform does not in itself mean that product or component so specified or identified is subject to UL's Surveillance Program.

The manufacturer's products are not covered under UL's Surveillance Program unless they bear the authorized UL Mark. Therefore, only those products bearing the appropriate authorized UL Mark or UL Recognized Component Mark, the authorized company name, tradename, trademark and product designation shall be considered as being covered by UL's Listing, Classification, or Recognition Service.

If you have questions regarding this letter, please contact the UL Customer Experience Center at cec@ul.com.

Sincerely,

Leadership & Governance Team
UL Product iQ

UL LLC
333 Pfingsten Road, Northbrook, IL 60062-2096 USA
T: 847.272.8800 / F: 847.272.8129 / W: UL.com

UL Listed Range (UL2200)

Proudly, GULFPOWER achieved one of the most strong certificates which is UL2200 (Standard for Stationary Engine Generator Assemblies), These requirements cover stationary engine generator assemblies rated 600 volts or less that are intended for installation and use in ordinary locations in accordance with the National Electrical Code NFPA 70; the Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, NFPA 37, the Standard for Health Care Facilities, NFPA 99, and the Standard for Emergency and Standby Power Systems, NFPA 110.

You can check the certificate online by using the following link or scanning the QR Code
<https://iq.ulprospector.com/en/profile?e=611408>



STD Genset Model	Engine		60 Hz				50 Hz			
			Genset Standby Power		Genset Prime Power		Genset Standby Power		Genset Prime Power	
			Brand	Model	(KVA)	(KW)	(KVA)	(KW)	(KVA)	(KW)
GPJ0033-UL	John Deere	3029DFU29	33	26	29	23	26	21	25	20
GPJ0055-UL	John Deere	4045DF158	55	44	50	40	46	37	42	34
GPJ0088-UL	John Deere	4045TF158	88	70	80	64	75	60	67	54
GPJ0125-UL	John Deere	4045HF158	125	100	120	96	115	92	98	78
GPJ0151-UL	John Deere	6068TF258	151	121	138	110	129	103	120	96
GPJ0203-UL	John Deere	6068HF158	203	162	184	147	169	135	153	122
GPJ0227-UL	John Deere	6068HF258	227	182	204	163	202	162	183	146
GPV0265-UL	Volvo Penta	TAD 734GE	265	212	250	200	265	212	246	197
GPV0369-UL	Volvo Penta	TAD 1341GE-B	369	295	334	267	346	277	316	253
GPV0400-UL	Volvo Penta	TAD 1342GE-B	400	320	364	291	370	296	330	264
GPV0445-UL	Volvo Penta	TAD 1343GE-B	445	356	411	329	413	330	379	303
GPV0500-UL	Volvo Penta	TAD 1344GE-B	500	400	465	372	456	365	412	330
GPV0535-UL	Volvo Penta	TAD 1640GE-B	535	428	507	406	509	407	463	370
GPV0645-UL	Volvo Penta	TAD 1641GE-B	645	516	574	459	559	447	509	407
GPV0656-UL	Volvo Penta	TAD 1642GE-B	656	525	623	498	636	509	595	476
GPV0713-UL	Volvo Penta	TWD 1643GE	713	570	673	538	705	564	635	508
GPV0715-UL	Volvo Penta	TWD 1644GE	715	572	673	538	710	568	656	525
GPV0800-UL	Volvo Penta	TWD 1645GE	800	640	727	582	710	568	670	536
GPC0750-UL	Cummins	VTA28G5	750	600	681	545	700	560	636	509
GPC1000-UL	Cummins	QSK23G3	1000	800	909	727	840	672	800	640
GPC1230-UL	Cummins	QST30G4	1230	984	1150	920	1092	874	1000	800
GPC1245-UL	Cummins	KTA38G4	1245	996	1138	910	N/A			
GPC1565-UL	Cummins	KTA50G3	1565	1252	1400	1120	1385	1108	1260	1008
GPC1650-UL	Cummins	KTA50G8	N/A				1650	1320	1400	1120
GPC1845-UL	Cummins	KTA50G9	1845	1476	1608	1286	N/A			
GPC2170-UL	Cummins	QSK60G4	N/A				2170	1736	2000	1600
GPC2500-UL	Cummins	QSK60G6	2500	2000	2281	1825	N/A			
GPC3000-UL	Cummins	QSK78G9	N/A				3000	2400	2600	2080
GPC3400-UL	Cummins	QSK78G8	3400	2720	3125	2500	N/A			



Special Application Genset

Medium Voltage Genset

GULFPOWER can provide you with your needs for the Medium Voltage genset (13.8 kV , 11 kV , 4.16 kV ... etc.) along with the best experience and high engineering standard , powered by well-known engines and well-known alternators, please consult **GULFPOWER** team for more information

Medium or Low Speed Genset

GULFPOWER can support you with a special genset powered by medium speed engines (400 rpm to 1200 rpm) , with rating for more than 3 MW suitable for your power plant , powered by GE engine or Mitsubishi Engine .

Telecom Gensets

Option for telecom tower gensets designed by **GULFPOWER** is available, also these genset has been test with the high ambient temperature and harsh environment to acknowledge the best performance within Saudi Arabia harsh environment .

400 Hz Genset

Also, we can support you with the special genset with 400 Hz frequency, which needed for the aviation or military field.

Please consult **GULFPOWER** team for more information and special study for any of the above topics.



Parts Identification

FILTERS:

Disposable air filter, optional canister type with single or dual element. All air filters incorporate a service indicator. Oil and fuel filters are replaceable canister-type.

GENERATOR/ALTERNATOR:

Advanced self-exciting, self-regulating brushless generators are built for extended, dependable life. Features include fully interconnected damper windings, cooling systems, sealed bearings, Class H insulation and 2/3 pitch with THF <2% and TIF <50.

CONTROL PANELS:

Standard control panel is fully equipped with all necessary engine gauges, AC meters and warnings.

CIRCUIT BREAKERS:

Fully rated mainline circuit breaker housed in sheet steel enclosure, with removable cover plate, mounted integrally with generator set.

ENGINE:

GULFPOWER Gensets are powered by world-renowned manufacturers engine such as Engine manufacturers (Volvo Penta , John Deere , Cummins , Perkins , Lister Peter , Mitsubishi , GE , Duetz)

COOLING RADIATOR:

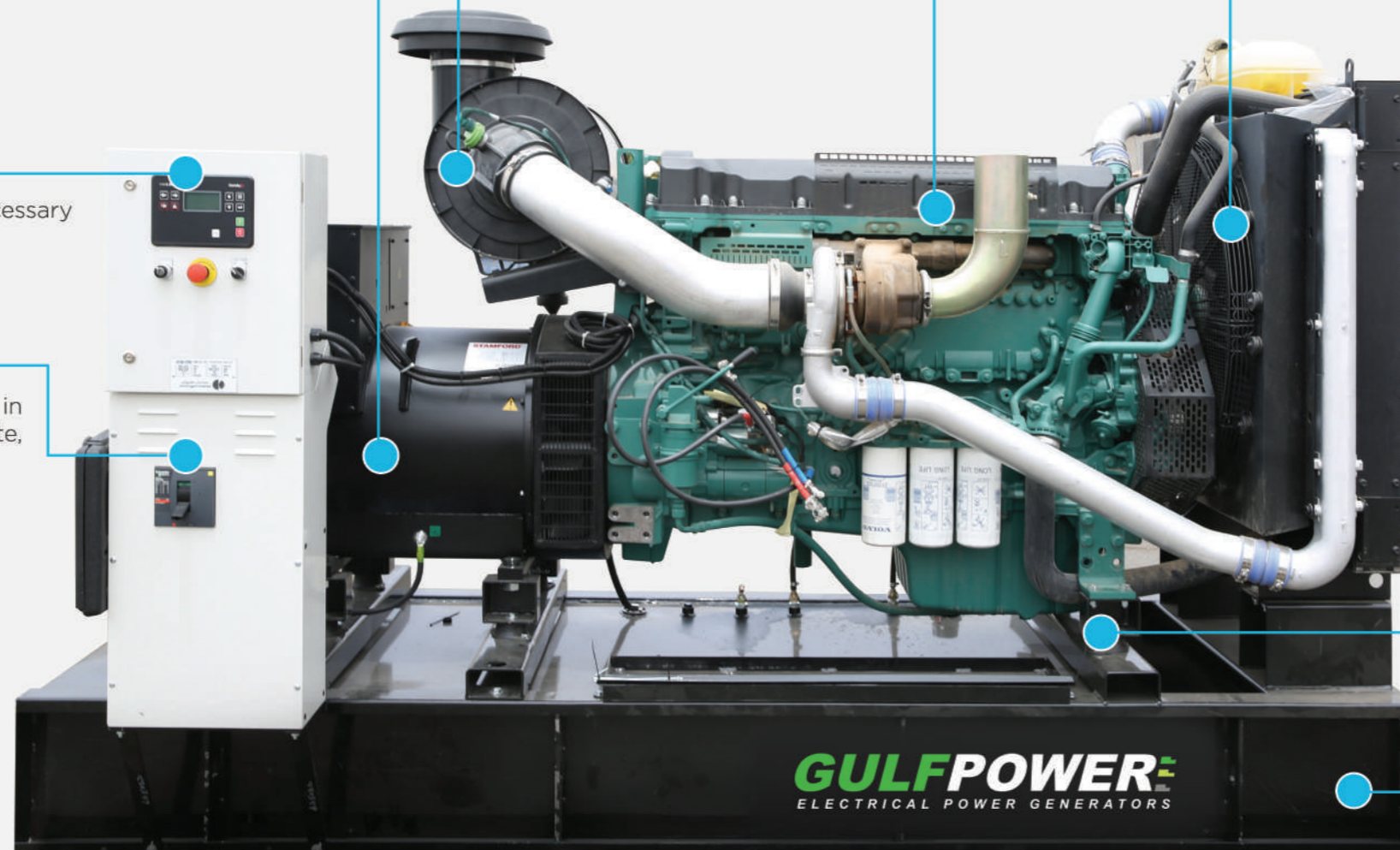
Heavy duty cooling radiator designed to handle 50 Deg Ambient temperature

VIBRATION ISOLATORS:

Rubber pad anti-vibration mountings isolate tank base skid from engine /Alternator assembly.

GENSET SKID:

Steel skid to handle all of the genset components



GULFPOWER
ELECTRICAL POWER GENERATORS



Control Panels

Our control panels extend from models offering basic manual and remote control to full synchronisation of multiple sets.

We equip all our Standard range of generator sets with a baseframe mounted control panel. DG Sets models incorporate a control module together with integral stand and circuit breaker ensuring a dependable and user-friendly operating system.

Manual and Auto Start

This is an entry level digital control system, which provides for manual and remote control of the generator set, with operating parameters clearly shown on a LCD display. Full power monitoring and protection facilities are incorporated including display of kW, kVA and power factor

Synchronising (single set to set)

In order to meet the ever more challenging requirements of multi-set operation, this control system affords set-to-set synchronisation and load sharing.

Auto Mains Failure

All Features of the manual and auto start, plus full AMF functionality with integrated mains monitoring.

Manual and Auto Start plus Telemetry

With all the features of the manual and auto start, plus data communication, this system enables full telemetry via the RS 232/485 interfaces. Facility to integrate SAE J1939 CANBus is also included. All electronic engines with onboard ECU/CANBus have this

Synchronising (Single set to mains)

This control system is used for a single set to be synchronised with the mains supply giving a no break return together with soft load transfer.

Our Partner

ComAp
The heart of smart control

DSE DEEP SEA ELECTRONICS

Lovato electric

Generator Set Designations And Definition Of Ratings

All generator model designations begin with the prefix GP.

The following letter(s) are used to indicate the manufacturer of the engine on which generator is based.

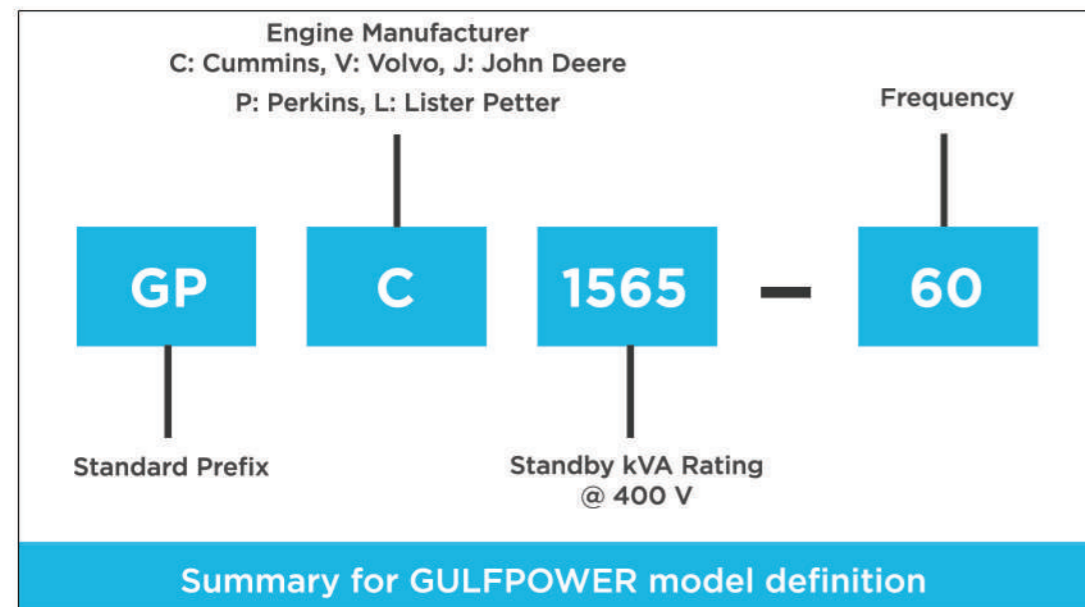
For example:

Cummins GPC
Volvo GPV

Mitsubishi GPM
John Deere GPJ

Lister Petter GPL

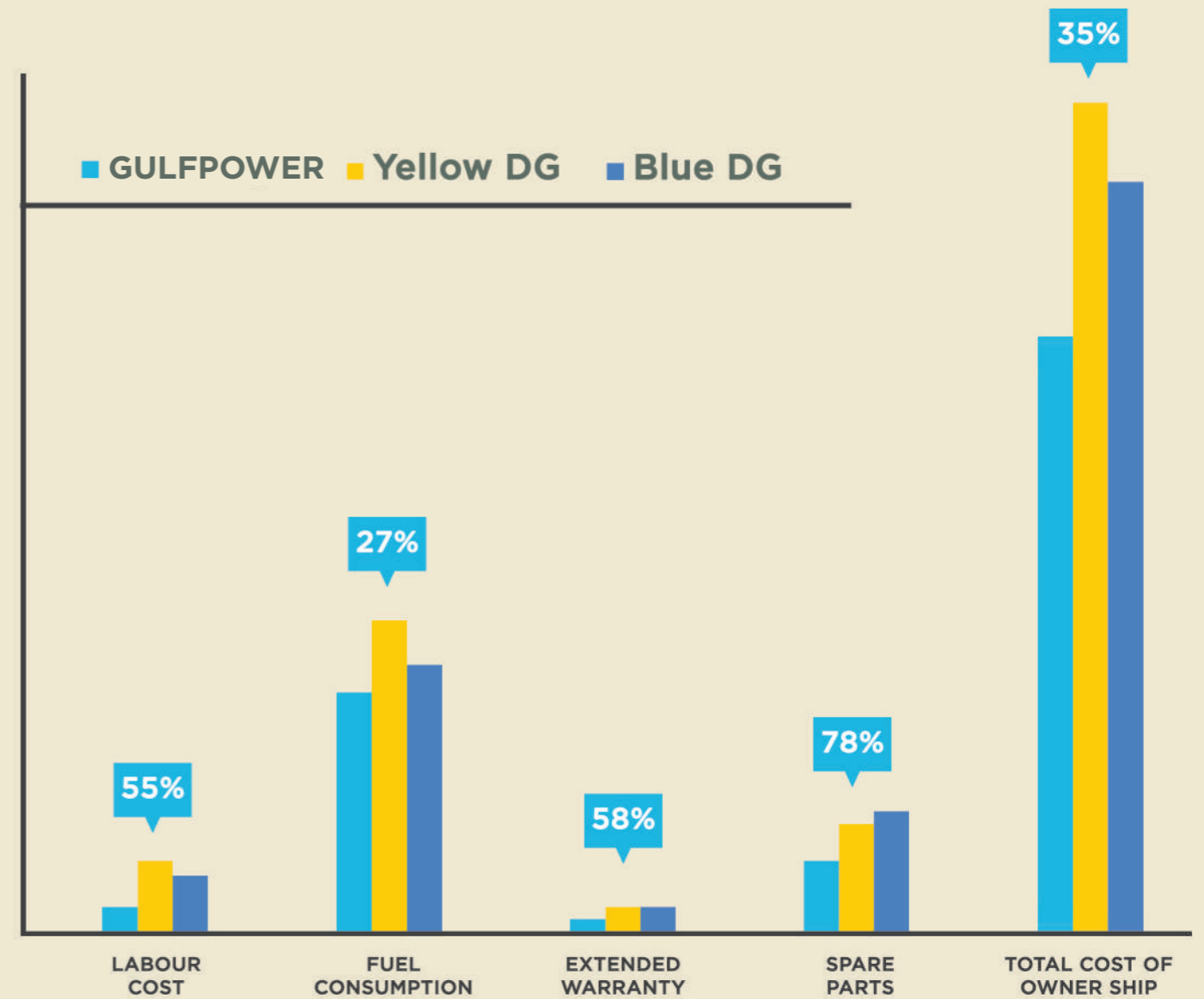
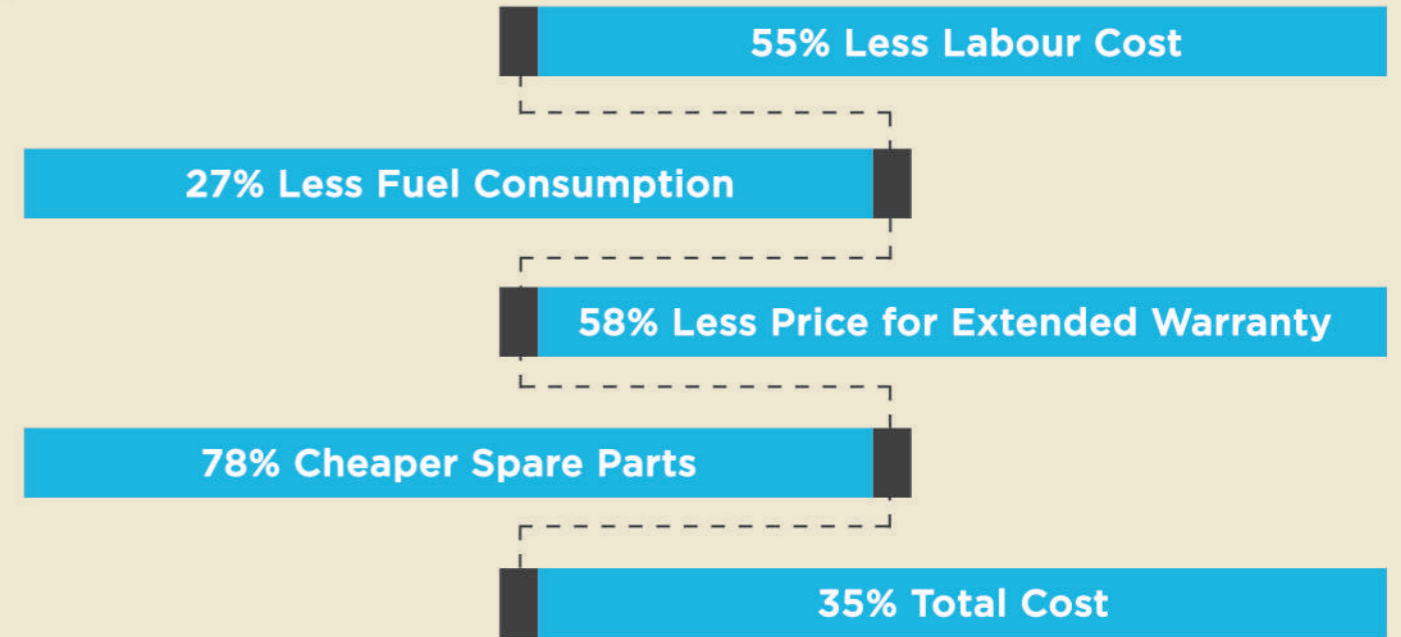
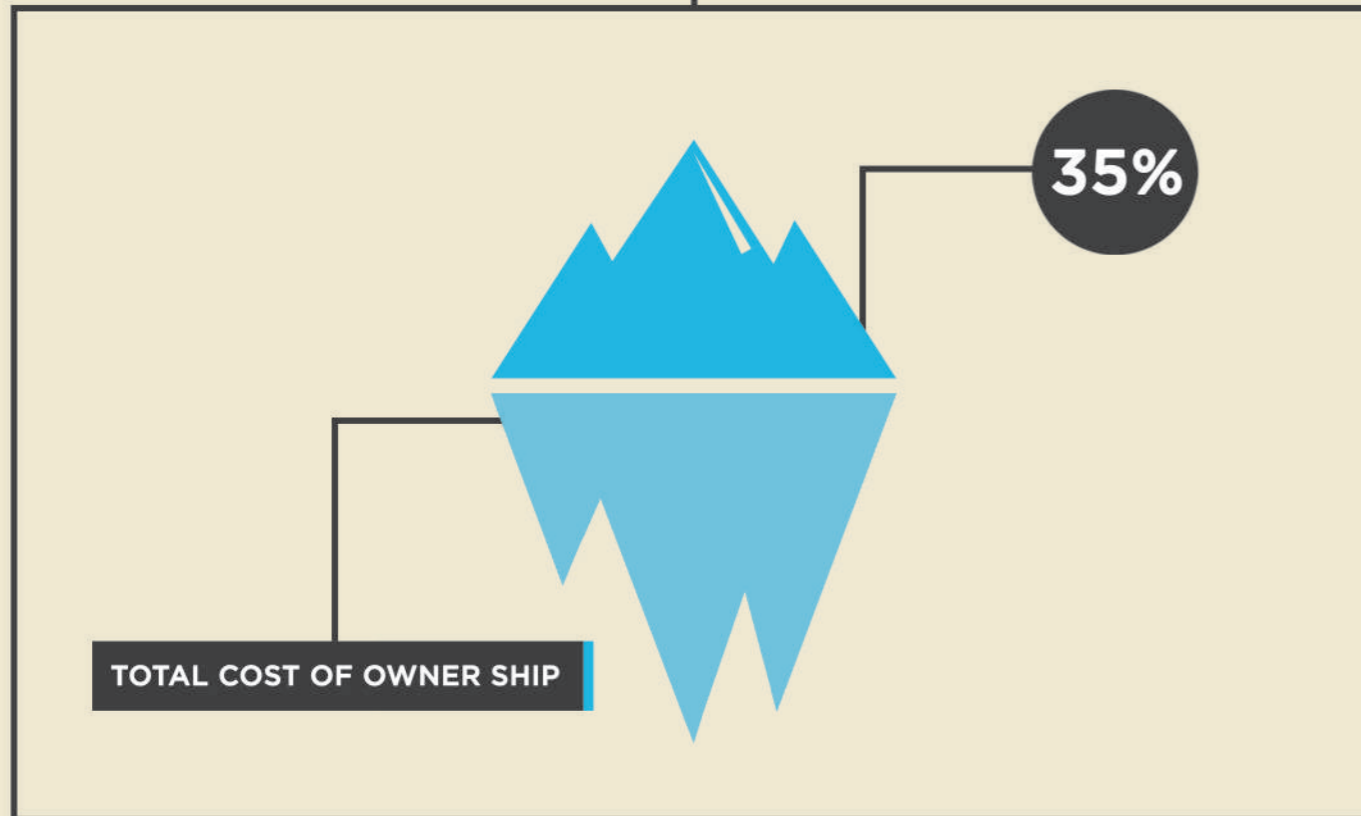
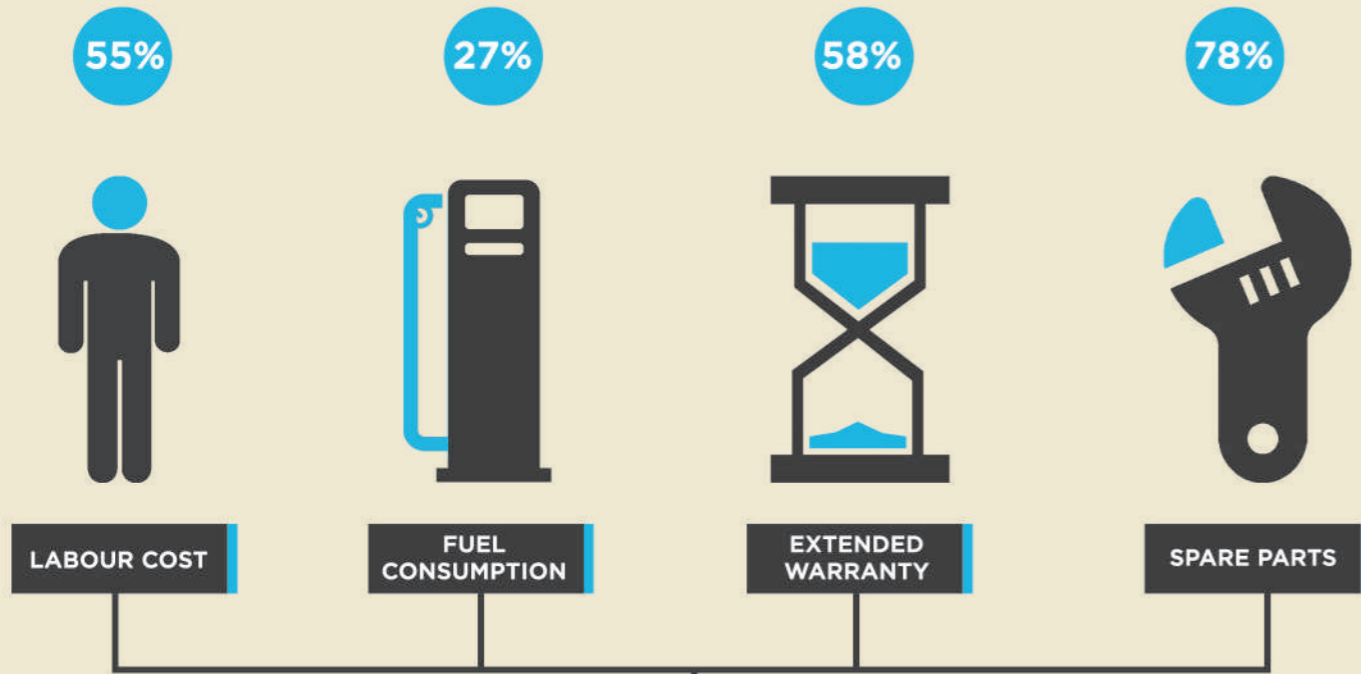
Perkins GPP




Diesel Generator Sets

Superior quality generator sets powered by engines from world-renowned manufacturers, covering the range from 9 kVA up to 3400 kVA (for high speed engine 1800 RPM and 1500 RPM) and more than 3400 kVA for genset powered by medium speed engines

Total Cost Of Ownership

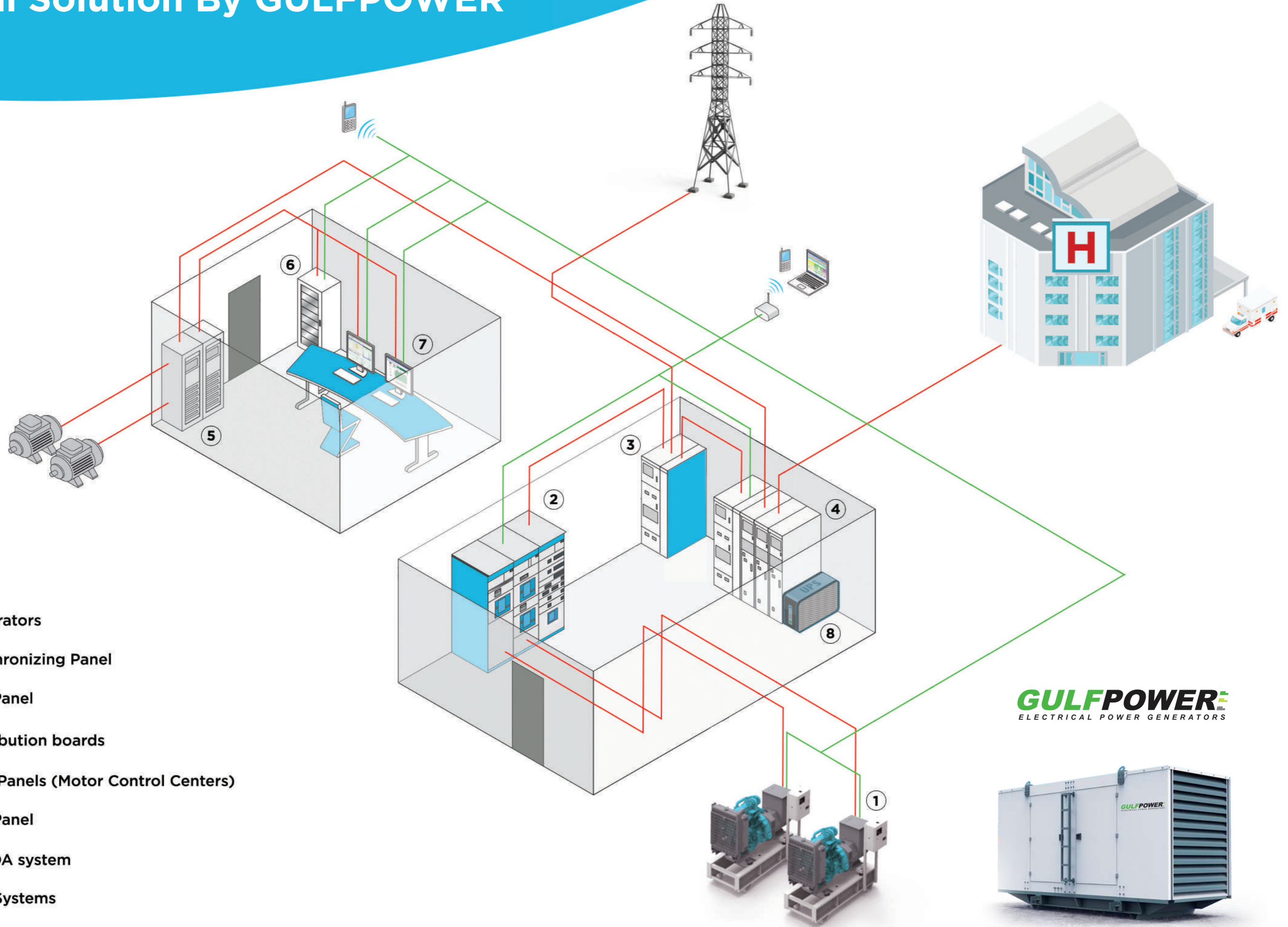


* The above calculations are based on technical data taken from manuals of VOLVO (TAD1642 GE) and other brands, for 10,000 hrs prime power running at standard conditions.



Low Voltage
GULFPOWER
Panels

Typical Solution By GULFPOWER



- ① GP Generators
- ② GP Synchronizing Panel
- ③ GP ATS Panel
- ④ GP Distribution boards
- ⑤ GP MCC Panels (Motor Control Centers)
- ⑥ GP PLC Panel
- ⑦ GP SCADA system
- ⑧ GP UPS Systems

GULFPOWER
ELECTRICAL POWER GENERATORS



Auto Transfer Switch (ATS)

DESCRIPTION

It is design to monitor the incoming AC mains supply (1 or 3 phases) for under Voltage, over Voltage, under frequency, over frequency and voltage unbalance. In the case of any mains supply disproportion it will send a remote start command to the generating set and make change over for both generator and main contactors.

FEATURES

- Sheet Steel lockable enclosure with hinged door
- Mechanical & Electrical interlocking of Power Components
- Microprocessor control based switching
- Gen-set remote start
- ATS, MCB and GCB control
- 3 Phase ATS function
- 3 Phase generator Protection
- Power measuring
- Event and performance log
- Selection of AUTO/Manual and test mode
- LED Indicator for Main, Gen & Load
- Emergency Push Button

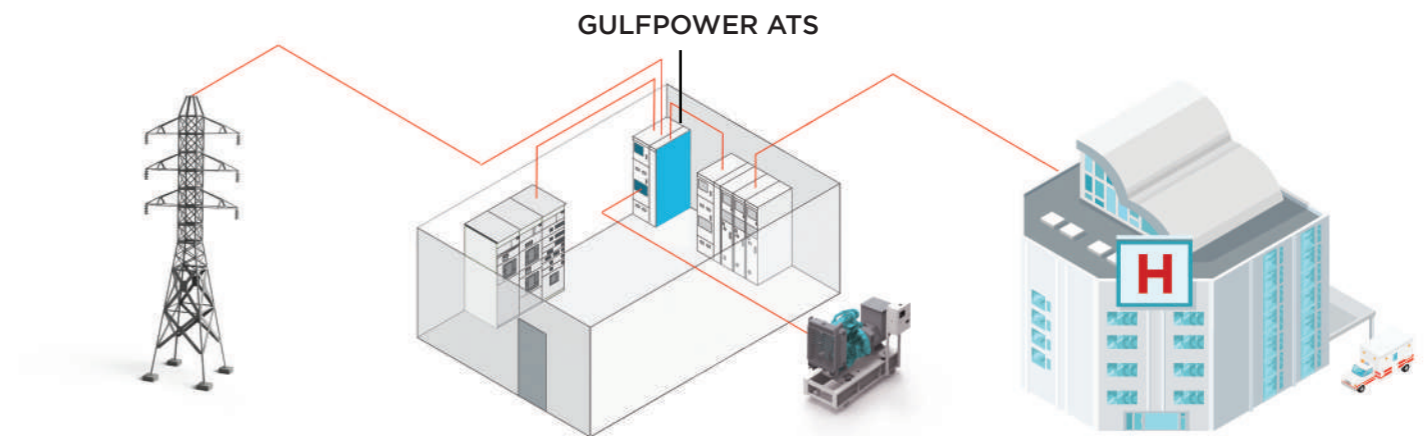


Ref.	Description
1	GP name plate
2	ATS Microprocessor controller
3	LED Indicators for main, Gen & Load
4	Emergancy push button
5	Quality Check

Typical Application

OPEN/DELAY TRANSITION - AUTO/MANUAL TRANSFER

- Stand-by Gen-set Intelli-ATS continuously monitor main supply for under voltage, over voltage, under frequency, over frequency & voltage unbalance. In the case of mains Failure it sends a remote start command to the stand by gen-set.
- Intelli-ATS waits for "Ready to Load" signal or stand by gen-set voltage configurable and switches load to stand by generator.
- After the mains returns the inteli-ATS switches load back to main and send remote stop command to the stand by gen-set.
- Different Delay intervals can be set for individual changeover phases.
- The changeover can take place also on explicit demand, not only after mains failure.
- ATS function works with backup battery or in reduced mode without backup battery.



Ready To SYNCH Panel

PARALLELING SWITCHGEAR

DESCRIPTION

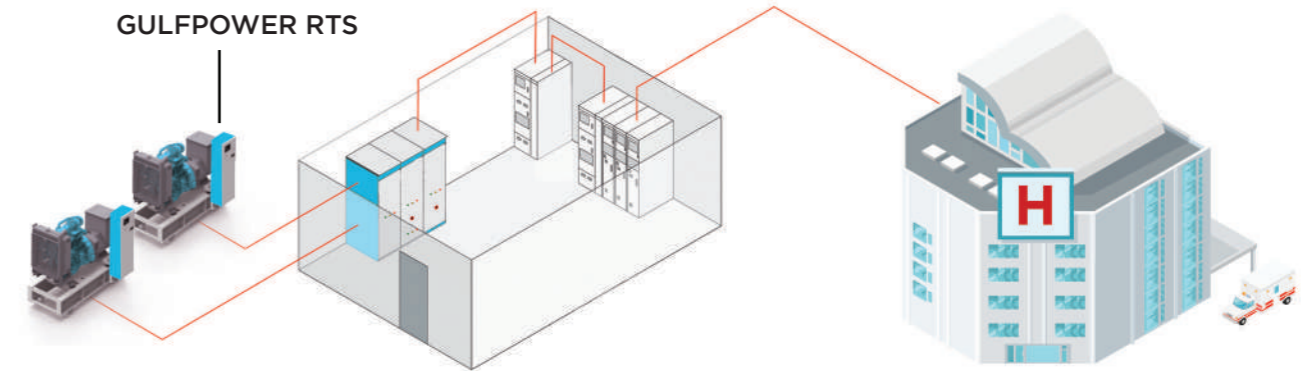
By using builtin device with synchronization, power matching and paralleling functions, the controller can be synchronized with the mains, uninterruptedly returning when reaching the peak.

Can parallel up to 32 generator sets as a group.

COMMUNICATION MODULES & PC TOOLS

- **I-CR** - CAN repeater module
- **InternetBridge-NT** - Internet bridge module with wireless connection
- **I-LB+** - Local bridge
- **I-CB** - ECU communication bridge
- **InteliMonitor** - PC monitoring tool
- **WebSupervisor** - Cloud-based system for monitoring and controlling of ComAp controllers
- **WinScope** - Special graphical controllers monitoring software
- **GenConfig** - PC configuration tool

Typical Application



LED/LCD display	Functions and Protections	
<ul style="list-style-type: none"> • Voltage • Amperage • Frequency • kW • kVAr • Power factor • Synchroscope 	<ul style="list-style-type: none"> • Reverse power • Dead bus sensing • Voltage matching • Frequency matching • Phase angle matching 	<ul style="list-style-type: none"> • Ramp control • Blend control • Circuit breaker closing on tract • Engine speed control

FEATURES

- Root mean square value voltage measurement
- Optional power measurement device
- Optional communication ability function, automatic synchronization indication function
- Inbuilt or expansion delay outputs



Ref.	Description
1	GP name plate
2	Ready to synch controller (Microprocessor)
3	Power ON/OFF Key switch
4	Emergency push button
5	Annunciator
6	Circuit breaker
7	Sercto switch

Synchronizing Control Panel

PARALLELING SWITCHGEAR

DESCRIPTION

It is design to meet power system requirements. These panels provide manual as well as automatic synchronizing function for one or more generator breakers. with load shearing and power management.

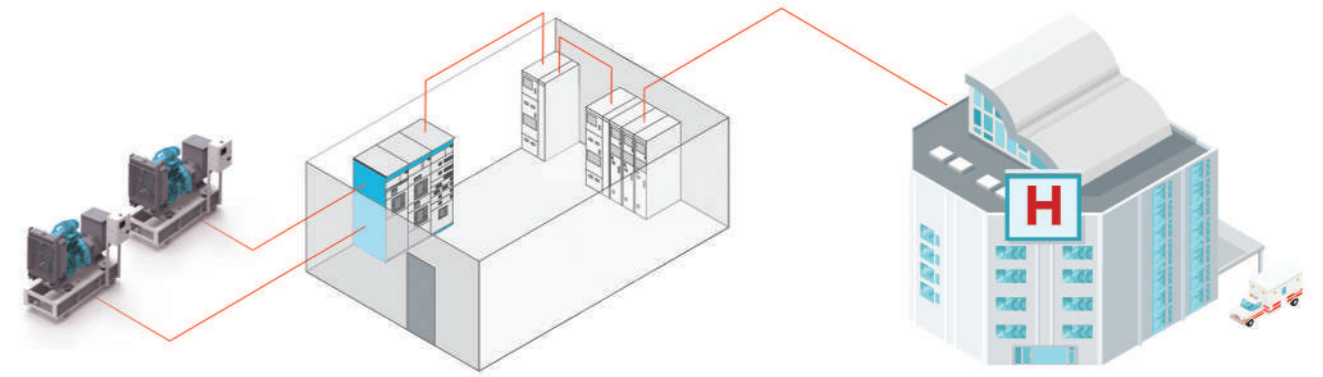
FEATURES

- Over-Current Protection
- Sync Check Relay
- Reverse Power Protection
- Ground Fault Protection
- Frequency and Voltage Protection
- Automatic Breakers
- Digital Metering
- Status Lamps
- Autocad Drawings
- Generator Control to Match your unit
- Manual Systems Available
- Automatic load sharing between Generators-Generator or Generator-Utility Design, Build, Install and Commission.



Ref.	Description
1	GP name plate
2	LED Indicators for CB OFF
3	LED Indicators for CB ON
4	LED Indicators for Common Alarm
5	Synchronizing Controller
6	Emergancy push button
7	Local remote selector switch
8	LED indicator for phases
9	Quality Check

Typical Application



LED/LCD display	Functions and Protections
<ul style="list-style-type: none"> • Voltage Measrrment • Ampare Measurment • Frequency • kW • kVAr • Power factor • Synchroscope • LCD 128 x 64 	<ul style="list-style-type: none"> • Reverse power • Dead bus sensing • Voltage matching • Frequency matching • Phase angle matching • Ramp control • Blend control • Circuit breaker closing on tract • Engine speed control

ANSI CODE	Protection
25	Synchronism check
27	Undervoltage
32	Overload
32P	Load shedding
32R	Reverse power
37	Undercurrent
40	Excitation loss
46	Generator current unbalance
47	Voltage asymmetry and phase sequence
49T	Temperature monitoring
50	Generator overcurrent
50V+64	Earth fault current
55	Power factor

INTEGRATED FIXED AND CONFIGURABLE PROTECTIONS

- 3 Phase integrated generator protections (U + F)
- IDMT overcurrent + Shortcurrent protection
- Overload protection
- Reverse power protection
- Instantaneous and IDMT earth fault current
- 3 Phase integrated mains protections (U + F)
- Vector shift and ROCOF protection



OUR PARTNERS



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