



**DATA SHEET DIESEL  
GENERATOR SET** 

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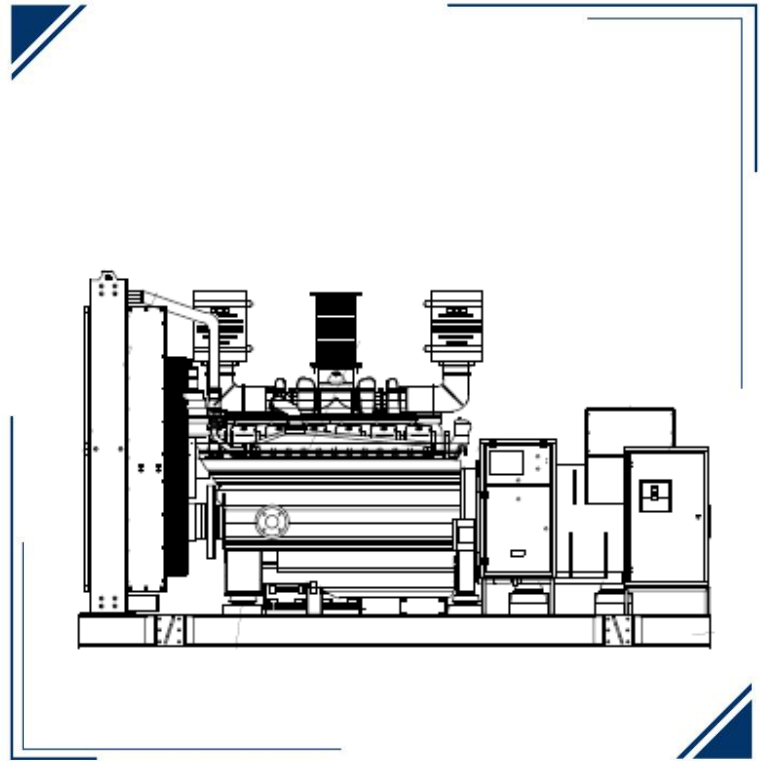
**GSBD20600L-UL**



► Model

GSBD20600L-UL

- ENGINE BRAND >> BAUDOUIN
- ENGINE MODEL >> 6MM33G8D2/6
- ALTERNATOR BRAND >> LEROY SOMER
- GENERATOR CONTROLLER >> DSE 7310



► GENSET RATING

ENGINE	ALTERNATOR	VOLTAGE	PH	Hz	STANDBY POWER		POWER FACTOR	CURRENT
		V			kW	KVA		A
	LSA49.3 M6	208/120	3	60	600	750	0.8	2084
6M33G8D2/6	LSA49.3 M6	480/277	3	60	600	750	0.8	903
	LSA 47.3 L10	600/346	3	60	600	750	0.8	722

► Certifications



**Standby Power.** Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

## ► ENGINE FEATURES

» BRAND _____	► BAUDOQUIN
» MODEL _____	► 6M33G8D2/6
» EXHAUST EMISSIONS _____	► TIER 2
» RPM _____	► 1800
» STANDBY RATING kWm _____	► 670
» STANDBY RATING bhp _____	► 899
» PRIME RATING kWm _____	► 610
» PRIME RATING bhp _____	► 818
» NUMBER OF CYLINDERS _____	► 6
» ASPIRATION _____	► TURBOCHARGED AND AFTERCOOLED
» DISPLACEMENT in <sup>3</sup> _____	► 1191.1
» ENGINE AIR FLOW CFM (m <sup>3</sup> /min) _____	► 1995.2
» GOVERNOR TYPE _____	► ELECTRONIC
» CONTROL VOLTAGE v _____	► 24
» BORE/STROKE, in ( _____	► 5.9X7.2(150X185)
» COOLANT CAPACITY WITHOUT RADIATOR gal _____	► 11.62
» OIL CAPACITY, TOTAL gal _____	► 16.9

## ► FUEL CONSUMPTION

STANDBY POWER		
LOAD	GAL/hr	L/hr
100%	44.93	170.1
75%	31.14	117.9
50%	21.26	80.5
25%	12	45.3

## ► ALTERNATOR FEATURES

» BRAND _____	► LEROY SOMER
» MODEL _____	► LSA 49.3 M6 / LSA 47.3 L10
» FREQUENCY _____	► 60 Hz
» PHASES _____	► 3
» WINDING LEADS _____	► 12
» INSULATION SYSTEM _____	► H CLASS
» CONTROL SYSTEM _____	► SEPARATELY EXCITED BY P.M.G.
» PROTECTION _____	► IP23
» POWER FACTOR _____	► 0.8
» COOLING AIR CFM _____	►
» VOLTAGE REGULATION (%) _____	► +-0.5

## ► GENERATOR CONTROLLER

### » MODEL

## DEEP SEA 7310



The DSE7310 MKII is an Auto Start Control Module and the DSE7320MKII is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem). The DSE7320 MKII will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet@ terminals for system expansion.

#### KEY FEATURES

- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- DSENet expansion compatibility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- 3 phase mains (utility) sensing and protection (DSE7320 MKII only)
- Automatic load transfer control (DSE7320 MKII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)
- kW and kvar overload and reverse power alarms

- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 2 configurable volt-free relay outputs
- 6 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of RS232 and RS485 communication ports
- True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.
- MODBUS RTU support with configurable MODBUS pages.
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support

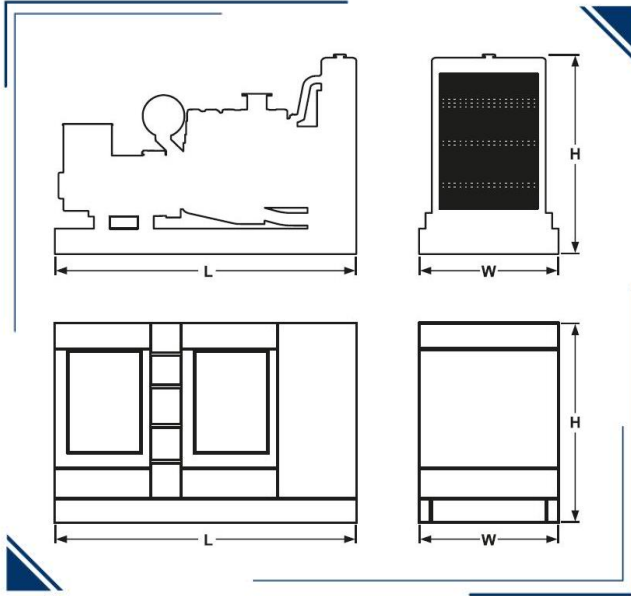
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Modules can be integrated into building management systems (BMS) using MODBUS RTU

#### KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE7320 MKII only) for convenience.
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility
- PLC editor allows user configurable functions to meet user specific application requirements.



## ► DIMENSIONS AND WEIGHT



OPEN GENSET					
DIMENSION	Length (L)	Width (W)	Height (H)	Weight	Noise Level
	IN			Lbs	dB
	142	79	87		
ENCLOSED GENSET LEVEL 2					
DIMENSION	Length (L)	Width (W)	Height (H)	Weight	Noise Level
	IN			Lbs	dB
	209	79	98		

## ► ACOUSTIC ENCLOSURE

Acoustic enclosure designed and manufactured with 14 gauge carbon steel sheet, polyurethane acoustic coating, access and air expulsion to avoid gas accumulation, drainage system to avoid liquid accumulation. Electrostatic painting for extended life. We have options for enclosures in aluminum or stainless steel

## ► STANDARD FEATURES & ACCESSORIES

<input checked="" type="checkbox"/>	DSE 9470 Battery Charger	<input checked="" type="checkbox"/>	Emergency Stop Button
<input checked="" type="checkbox"/>	Battery and Battery Rack	<input checked="" type="checkbox"/>	Flex Fuel Lines
<input checked="" type="checkbox"/>	ABB Main Line Circuit Breaker	<input checked="" type="checkbox"/>	Protection Covers for Rotating Parts
<input checked="" type="checkbox"/>	R250AVR	<input checked="" type="checkbox"/>	Exhaust Insulation Cover
<input checked="" type="checkbox"/>	Hotstart Pre heater RMP-CL130110-200	<input checked="" type="checkbox"/>	Anti Vibration Pads between Engine/Alternator & Base Frame
<input checked="" type="checkbox"/>	Residential Grade Silencer Open Unit	<input checked="" type="checkbox"/>	Operation and Maintenance manuals
<input checked="" type="checkbox"/>	Critical Grade Silencer Inside Enclosure	<input checked="" type="checkbox"/>	24 Months /1000 hours Limited Standby Warranty



## ▶ OPTIONAL ACCESSORIES

Paralleling Adder (DSE8610 & Motorized Breaker)	Enclosure AC light and On/Off Switch
120V GFCI Receptacle	Enclosure DC light and On/Off Switch
240V Receptacle	Enclosure space Heater (1500w/120v)
Alternator Strip Heater	Load Center / Distribution Board (100 A, 12 Breaker)
Battery Blanket Heater	Load Center / Distribution Board (200 A, 8 Breaker)
Battery Disconnect Switch	AVR UPGRADE
Battery Pad Heater	Oil Pan Heater
Battery Restraint	Relay - 10A Common Alarm
Control Panel Heater	Relay - 10A Run Relay
DSE2157 Output Module (8 dry contacts)	Remote E-Stop- Breaker Glass Type / Nema 3R
DSE2520 Remote Display Module	Remote E-Stop- Breaker Glass Type / Nema 4X
DSE2548 Remote Annunciator (16 light)	Remote E-Stop- Flush Mount
DSE2548 Remote Annunciator (24 light)	Remote E-Stop- Surface Mount
DSE2548 Remote Annunciator (8 light)	Remote E-Stop- Visual/ Plastic Hinged Cover
DSE890 3G GATEWAY	Spring Isolator- Non Seismic (ACE 121 Series) <small>SKIRT NOT INCLUDED</small>
GSM/GPS ANTENNA 3M RG-174, GSM-SMA(M), GPS-SMA(F)	Spring Isolator- Seismic/Restraint (ACE 821 Series) <small>SKIRT NOT INCLUDED</small>
DSE9641 10A Battery Charger	Voltage Adjust Rheostat
DSE9470 10A Battery Charger	Automatic Transfer Switch


## ▶ OPTIONAL UL142 SUB BASE TANK

	24 hr	48 hr	72 hr
Fuel Capacity (gal)	1300	2600	N/A
Dimensions (L/W/H) in			
Weight lb			



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	Model :	<b>6M33G8D2/6</b>	Date :	30/11/22
	<b>PowerKit Engine Datasheet</b>		Page :	1 / 4

## Ratings

RPM	Gross Engine Output				Net Engine Output			
	PRP		ESP		PRP		ESP	
	kWm	BHP	kWm	BHP	kWm	BHP	kWm	BHP
1800	610 *	818 *	670	899	582 *	780 *	642	860

1 kWm = 1,34102 BHP


When the engine is used with a cooling system using an electrically driven fan, net engine output data may change and quoted figures should be used for reference only

## Basic data

Engine model	.....	6M33G8D2/6
N° of Cylinders / Valves	.....	6 / 24
Cylinders arrangement	.....	In line
Bore x Stroke (mm)	.....	150 x 185
Displacement (L)	.....	19.6
Thermodynamic Cycle	.....	Diesel 4 stroke
Firing Order	.....	1-5-3-6-2-4
Mean Piston Speed (m/s)	.....	11.1
BMEP @ ESP (Bar)	.....	22.79
Cooling System	.....	Liquid (water + 50% antifreeze)
Injection System	.....	Direct
Fuel System	.....	High Pressure Common Rail
Aspiration	.....	Turbocharged and Aftercooled
Compression ratio	.....	15 : 1
Flywheel housing	.....	SAE 1
Flywheel	.....	14"
Rotation Viewed from Flywheel...	.....	Counterclockwise
Allowed static bending moment of the flywheel housing.....	.....	/
N° of teeth on flywheel ring gear	.....	178
Inertia of flywheel (kg•m <sup>2</sup> )	.....	4.76
Inertia of crankshaft (kg•m <sup>2</sup> )	.....	2.22
Emission standard	.....	EPA Tier2
Overall Dimensions with radiator (Length x Width x Height) (mm)	.....	2798 x 1680 x 1954
Engine dry weight without radiator and without radiator pipes (kg)	.....	2110
Engine dry weight with radiator and radiator pipes (kg)	.....	2472
Engine wet weight with radiator (includes oil, coolant) (kg)	.....	2689

\* The indicated PRP Power is for reference only. This engine is designed for emergency standby power (ESP) applications only.



	Model :	<b>6M33G8D2/6</b>	Date :	30/11/22
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### Air intake system

Air intake temperature rise (°C) .....	≤ 5
Air intake restriction clean filter (mBar) .....	≤ 30
Air intake restriction dirty filter (mBar) .....	≤ 65
Recommended air flow @ PRP (m³/min) .....	53.8
Recommended air flow @ ESP (m³/min) .....	56.5
Min. diameter of intake pipe (mm) .....	140

### Aftercooling system

Aftercooler system type .....	Air to Air
Max. intake temperature @ 25°C ambient temperature (°C) .....	55
Max. difference between intake temperature and ambient temperature (°C) .....	30
Max. intake pressure drop of aftercooler (mBar) .....	150

### Lubrication system


Oil capacity Low / High (L) .....	36 / 61
Oil pressure in normal condition idle speed (Bar) .....	≥ 2
Oil pressure in normal condition at 1800 Rpm @ PRP (Bar) .....	4 - 6.5
Lowest oil pressure alarm (shutdown) (Bar) .....	2
High Oil Pressure Warning .....	10
Max. oil temperature (°C) .....	105
Oil flow at 1800 Rpm (L/min) .....	≥ 316
Oil fuel consumption ratio based on engine fuel consumption data .....	≤ 0.3 %
Total system capacity (including filters) (L) .....	64

### Heat balance test data (with ambient temperature 33 °C)

Total heat dissipation @ ESP (kJ/s) .....	1187
- Heat Rejection to Jacket Water @ ESP (kJ/s) .....	349
- Heat Rejection to AfterCooler @ ESP (kJ/s) .....	211
- Radiated Heat to Ambient @ ESP (kJ/s) .....	83
- Heat Rejected to Exhaust @ ESP (kJ/s) .....	544

### Exhaust system

Max. exhaust back pressure (mBar) .....	75
Max. exhaust temperature before turbocharger (°C) .....	730
Max. exhaust temperature after turbocharger (°C) .....	550
Exhaust flow @ PRP (m³/min) .....	156.7
Exhaust flow @ ESP (m³/min) .....	172.4
Min. diameter of exhaust pipe (mm) .....	200
Max. bending moment of exhaust gas exit flange (Nm) .....	10

	Model :	<b>6M33G8D2/6</b>	Date :	30/11/22
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### Cooling system with standard radiator

System designed for ambient temperature up to (°C) <sup>1</sup> .....	50
Radiator type .....	Mechanical
Fan type .....	Belt driven pusher
Min. inside diameter of coolant outlet pipe (mm) .....	84
Coolant capacity of radiator and pipes (L) .....	115
Coolant alarm (shutdown) temperature (°C) .....	108
Thermostat opening temperature / full open temperature (°C) .....	80 / 92
Max. additional restriction for external cooling circuit (Bar) .....	0.46
Coolant capacity of the engine (L) .....	44
Cooling fan airflow (m <sup>3</sup> /min)* .....	1001
Fan absorbed power (kW) .....	26.8
Additional restriction (for reference) - Duct allowance (Pa) .....	100

\* Air flow figure assumes the presence of the standard radiator provided, taking into consideration the backpressure caused

### Fuel system

Governor .....	ECU
Governor steady state speed stability at constant load (ISO 8528-5 Class G3) <sup>2</sup> .....	≤ +/- 0.5 %
Max. restriction at fuel inlet (Bar) .....	0.5
Max. pressure at fuel inlet (Bar) .....	1.3
Max. fuel return restriction (Bar) .....	0.5
Max. fuel inlet temperature (°C) .....	50
Fuel supply flow (L/hr) .....	950
Min. internal diameter of inlet pipe (mm) .....	14
Min. internal diameter of return pipe (mm) .....	14


### Electrical system

Electrical system voltage (negative to ground) (Vdc) .....	24
Starter power (kW) .....	8.5
Battery charger current (A) .....	55
Battery charger absorbed power (kW) .....	1.6
Max. electric resistance of starting circuit (Ω) .....	0.008
Min. sectional area of wire (mm <sup>2</sup> ) .....	70
Min. cold start temperature without auxiliary starting device (°C) <sup>3</sup> .....	- 5
Min. cold start temperature with auxiliary starting device (°C) <sup>3</sup> .....	- 10

<sup>1</sup> The indicated value is based on the AOT value of 50°C for an engine tested at 100% of the ESP Power, reflecting temperature in an open condition, without an enclosure or container, without any airflow obstruction in the front of the radiator, without air recirculation, with free exhaust gas exit and with the engine thermostatic valve in its full open condition, without a closing plate present. The reference air restriction is equal to 50Pa. For the equivalent ATB (Air-to-Boil) performance in a customer or project basis, please consult Baudouin Application Engineering.

<sup>2</sup> This refers only to the frequency response of the engine and should not be confused with the performance class of the Generator Set, which is subject to additional contributing factors such as alternator selection and control settings.

<sup>3</sup> Engines used in emergency standby application or applications that require immediate start under load, they must be equipped with coolant heaters. Baudouin recommend heaters installation to be executed by providing constant coolant circulation across all the engine components. Two heaters are required for V-type engines, one per each side.

	Model : <b>6M33G8D2/6</b>	Date : 30/11/22
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## Noise

Diesel engine noise (Acoustic power level) (dB(A)) .....	120.5
Noise - upper side (dB(A)) .....	103.4
Noise - right side (view from flywheel) (dB(A)) .....	104.8
Noise - left side (view from flywheel) (dB(A)) .....	104.8
Noise – front (radiator) side (dB(A)) .....	102.9
Noise – rear (flywheel) side (dB(A)) .....	103.2

### Notes :

- Noise test made at 100% of the ESP power, at 1 mt. distance, on engine without radiator, without cooling fan and without silencer.
- Noise test refers to ISO 6798 norm : “Reciprocating internal combustion engines. Measurement of emitted airborne noise. Engineering method and survey method”.

## Fuel consumption

Rating	gr/kWh	L/hr
100% ESP	213.9	170.1
100% PRP	215	153.1
75% PRP	216.5	117.9
50% PRP	221.8	80.5
25% PRP	249.3	45.3
Fuel consumption tolerance +/- 5%		

### Notes:

This engine is designed for ESP (Emergency Standby) applications only, the values shown above at PRP levels refer to the Referenced Power ( 610 kWm).

## Ratings definitions

### Emergency Standby Power (ESP)

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine’s ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

### Prime Power (PRP)

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine’s PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period.

- All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of  $\pm 5\%$ .
- Test conditions : 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.

**ALTERNATOR ELECTRICAL DATA**  
**LSA 47.3 L10 / 4P**

**LS Reference: test1**

Date: 1/4/2023

V6.09d - 12/2022

Main data:				C
Power:	<b>750</b> kVA	<b>600,0</b> kW <sub>e</sub>	<b>628,4</b> kW <sub>m</sub>	1
Voltage:	<b>600</b> V	Frequency:	<b>60</b> Hz	1
Rated voltage range:	+5% / -5%	Speed:	<b>1800</b> rpm	1
Power factor - Lagging:	0,8	Phases	<b>3</b>	1
Nominal current:	<b>722</b> A	Connexion	Star serial	1
Insulation / Temperature rise:	H / H	Winding type:	p2/3	1
Cooling:	<b>IC01</b>	Winding:	9+ - 12 Wires	1
Ambient temperature:	<b>40</b> °C	Overspeed (rpm)	<b>2250</b>	1
Altitude:	<b>1000</b> m	Total Harmonic Distortion (THD) < 5%		1
Duty: Base Rating				

Efficiency ( Base 600 kW <sub>e</sub> )	IEC				
	25%	50%	75%	<b>100%</b>	110%
<b>Power factor - Lagging: 0,8</b>	88,66	93,42	94,88	<b>95,47</b>	95,59
<b>Power factor - Lagging: 1</b>	88,96	93,84	95,44	<b>96,18</b>	96,37

Reactances (%) - ( Base 750 kVA )						
Unitary impedance ( 1 per unit ) = 0,48 ohms						
		Unsaturated		Saturated		
		Direct axis		Quadrature axis		
Synchronous reactance	X <sub>d</sub>	159	126	X <sub>q</sub>	81	64
Transient reactance	X' <sub>d</sub>	14,8	8,4	X' <sub>q</sub>	81	64
Subtransient reactance	X'' <sub>d</sub>	8,5	4,9	X'' <sub>q</sub>	12,3	7,0
Negative sequence reactance	X <sub>2</sub>	10,4	5,9			
X <sub>0</sub>	0,3	Zero sequence reactance				
X <sub>l</sub>	4,3	Stator leakage reactance				
X <sub>r</sub>	11,3	Rotor leakage reactance				
<b>K<sub>c</sub></b>	<b>0,79</b>	Short-circuit ratio				

Time constants (s)					
		Direct axis		Quadrature axis	
Open circuit transient time constant	T' <sub>do</sub>	1,86		T' <sub>qo</sub>	NA
Short-circuit transient time constant	T' <sub>d</sub>	0,173		T' <sub>q</sub>	NA
Open circuit subtransient time constant	T'' <sub>do</sub>	0,017		T'' <sub>qo</sub>	0,059
Subtransient time constant	T'' <sub>d</sub>	0,010		T'' <sub>q</sub>	0,009
T <sub>a</sub>	0,015	Armature winding short circuit time constant			

Resistances (%)					
R <sub>a</sub>	1,8	Armature resistance	R <sub>0</sub>	0,1	Zero sequence resistance
X/R		X/R ratio (without unit)	R <sub>2</sub>	2,1	Negative sequence resistance

Rating is provided for the specified temperature rise, by resistance measurement according to IEC60034-1

According to: I.E.C. 60034.1 - 60034.2 - NEMA MG 1-32

Products and materials shown in this catalogue may, at any time, be modified in order to follow the latest technological developments.

**ALTERNATOR MAIN CURVES**  
**LSA 47.3 L10 / 4P**

LS Reference: test1

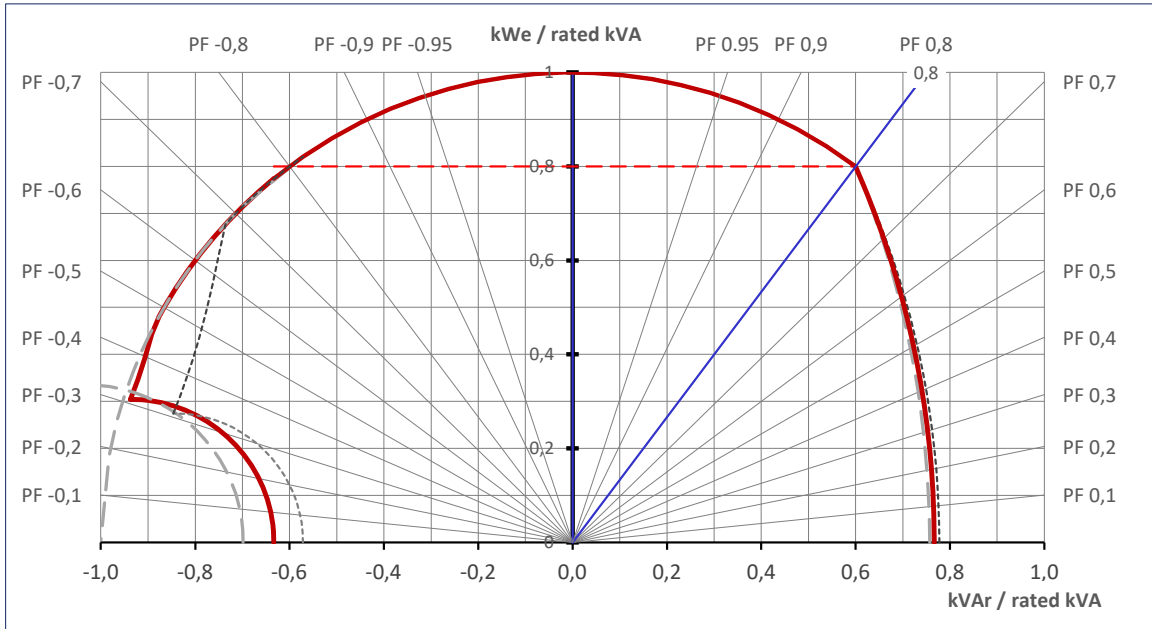
Date: 1/4/2023

**750kVA - 600V - 60 Hz**

V6.09d - 12/2022

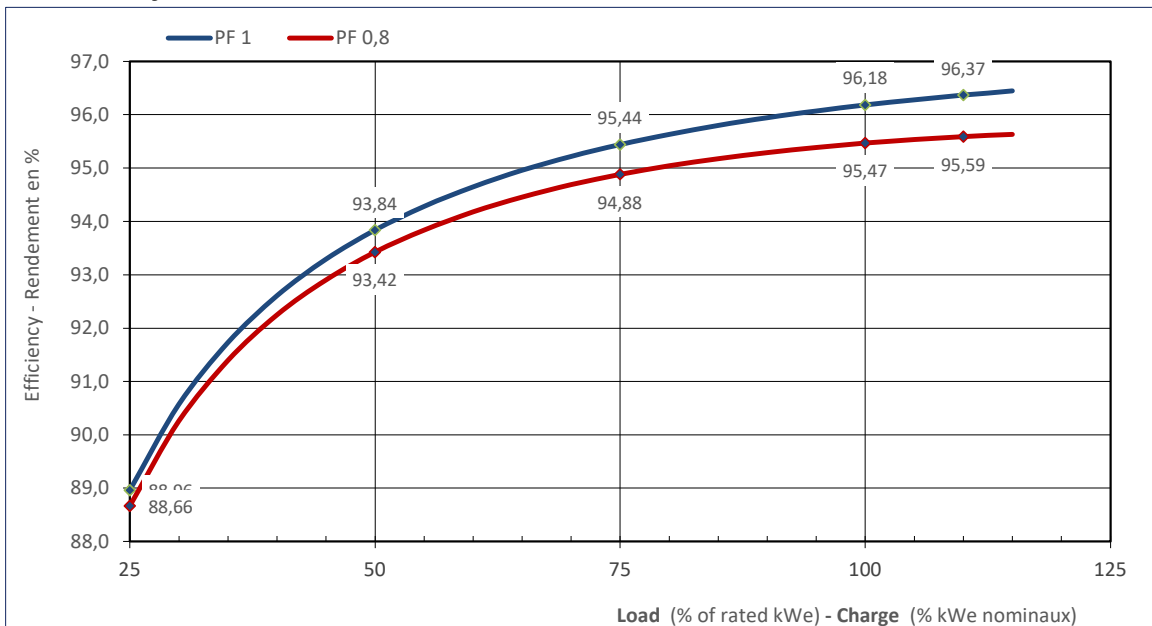
**Capability Curve**

---	Umax	+ 5%	630	V
—	Un		<b>600</b>	V
- - - -	Umin	- 5%	570	V



**Efficiency Curves**

According to: IEC





**ALTERNATOR MAIN CURVES**  
**LSA 47.3 L10 / 4P**

LS Reference: test1

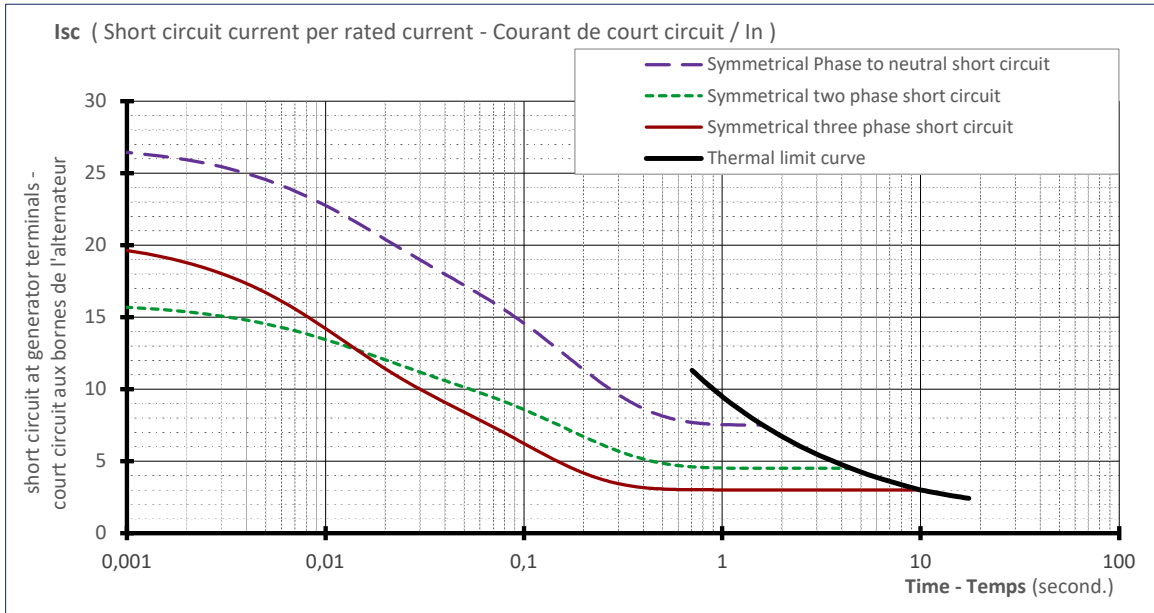
Date: 1/4/2023

**750kVA - 600V - 60 Hz**

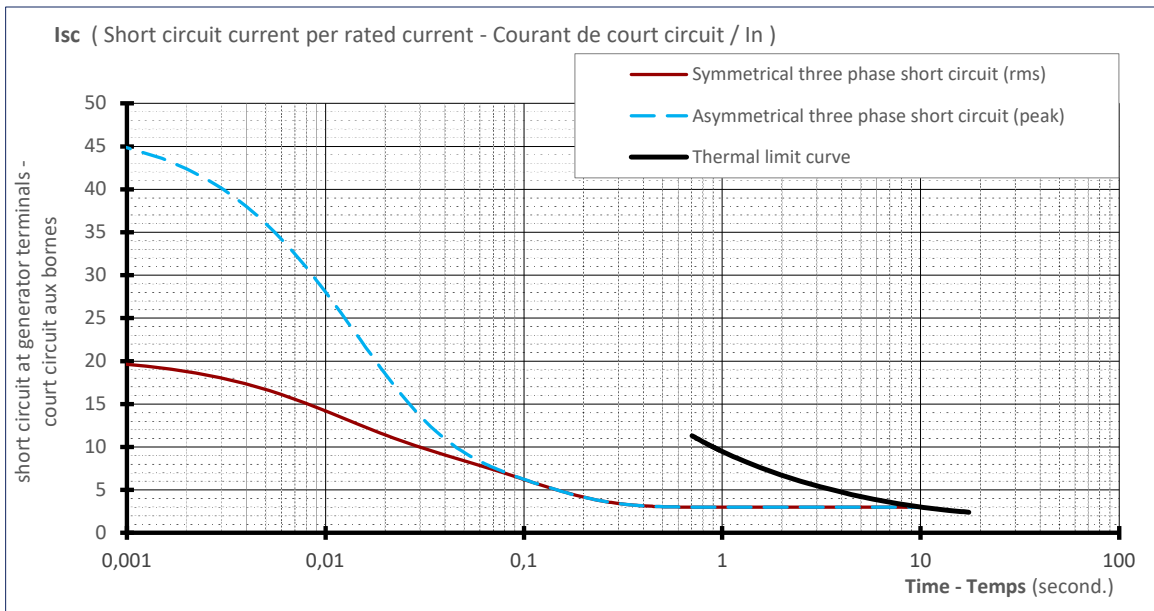
V6.09d - 12/2022

**Stator Current decrement curves**

Symmetrical phase to neutral short-circ	—	initial	19 091	A	26,4 x In	
Symmetrical two phase short-circuit	- - -	max	11 318	A	15,7 x In	In = 722 A
Symmetrical three phase short-circuit	—	value	14 166	A	19,6 x In	
Thermal Limit	—					



Asymmetrical three phase short-circuit — IP 32 500 A 45 x In



**ALTERNATOR MAIN CURVES**  
**LSA 47.3 L10 / 4P**

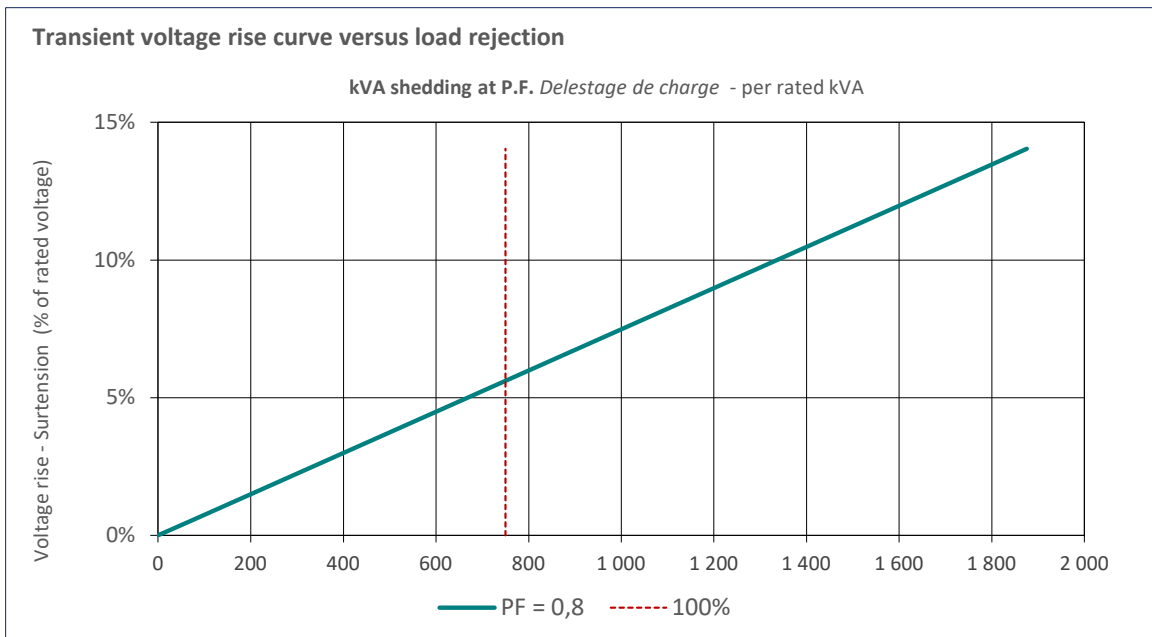
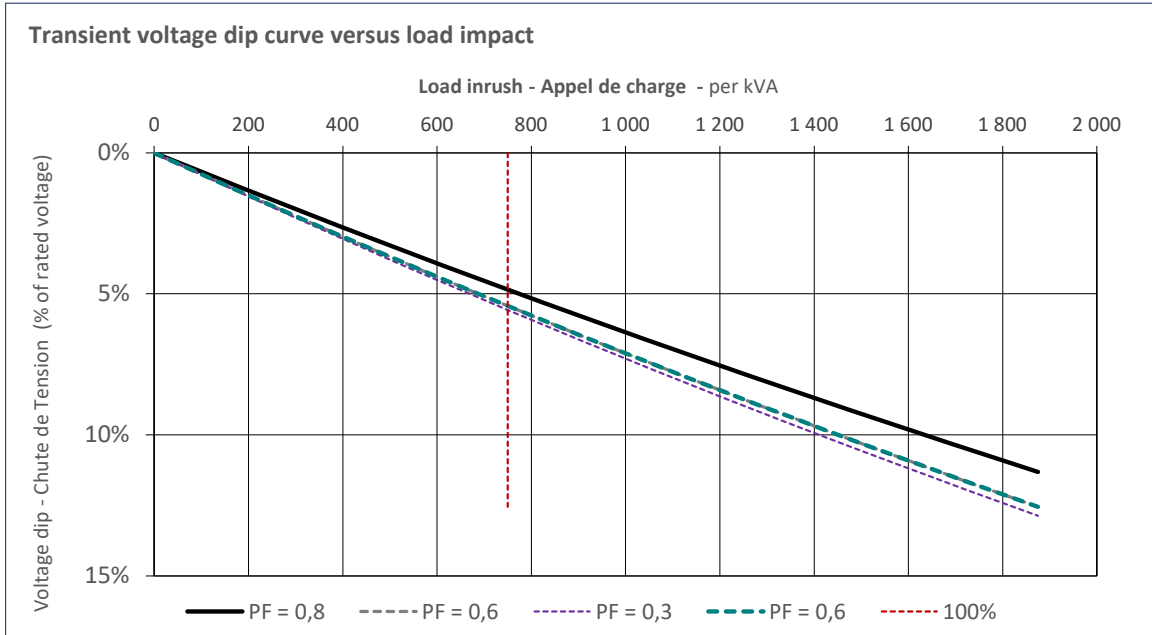
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Date: 1/4/2023

**750kVA - 600V - 60 Hz**

V6.09d - 12/2022

**Transient Voltage Variation**



**ALTERNATOR MAIN CURVES**  
**LSA 47.3 L10 / 4P**

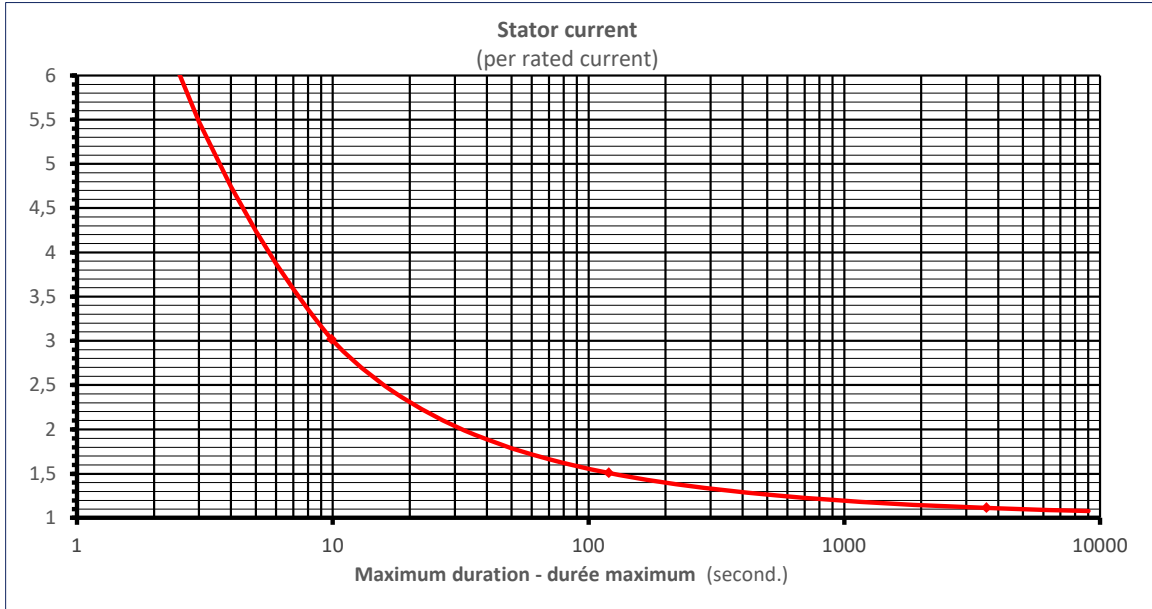
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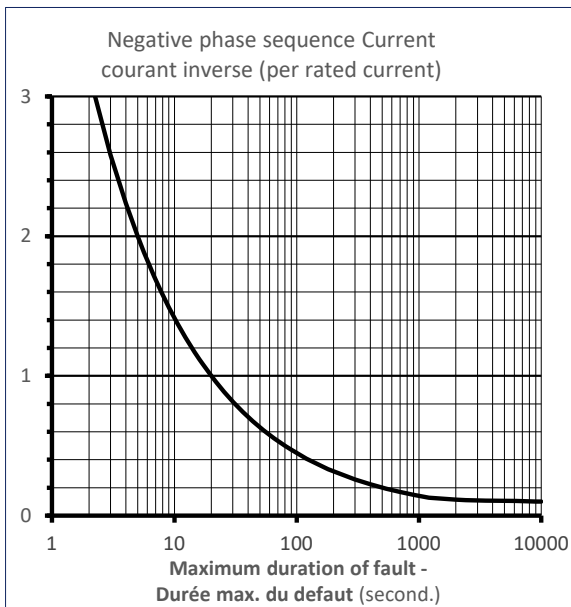
**750kVA - 600V - 60 Hz**

V6.09d - 12/2022

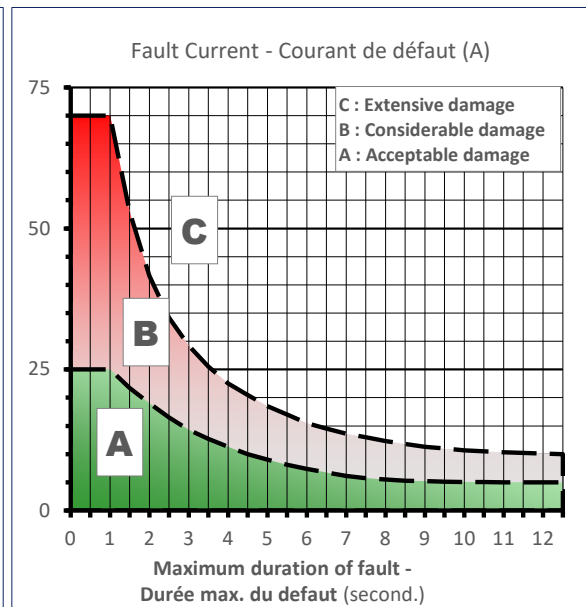
**Thermal Damage Curve**



**Unbalance Load Curve**



**Stator Earth Fault Current**

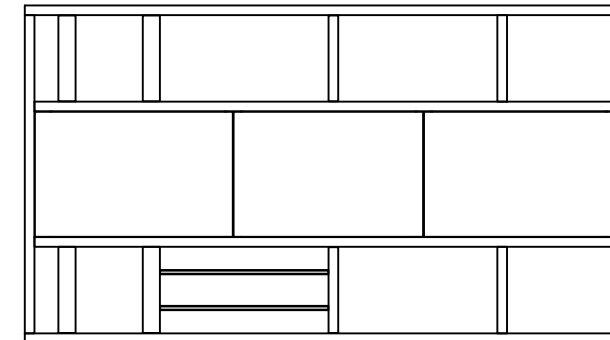
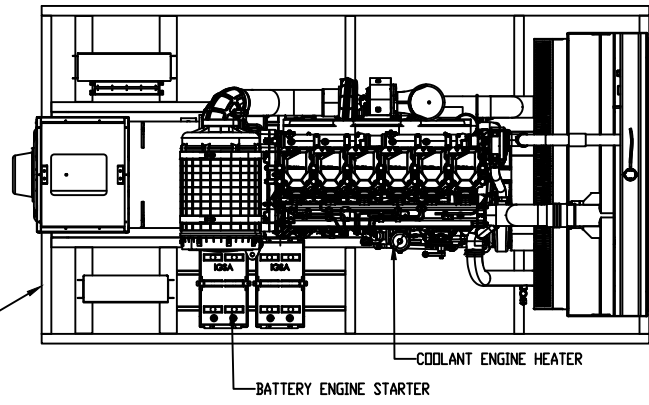


1 2 3 4 5 6 7 8

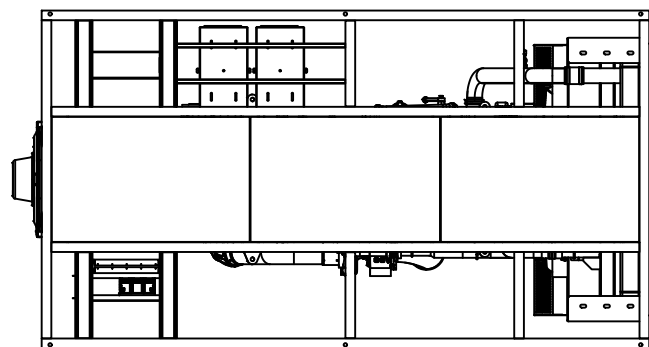
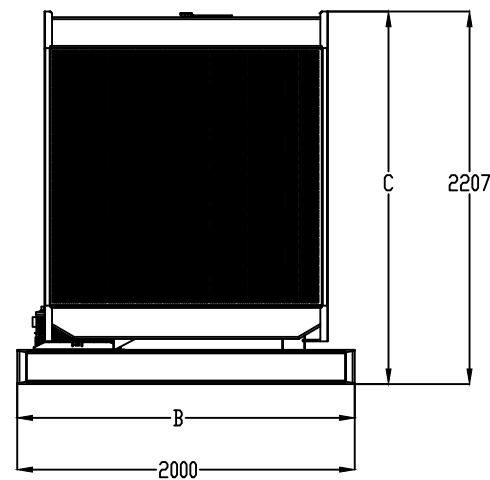
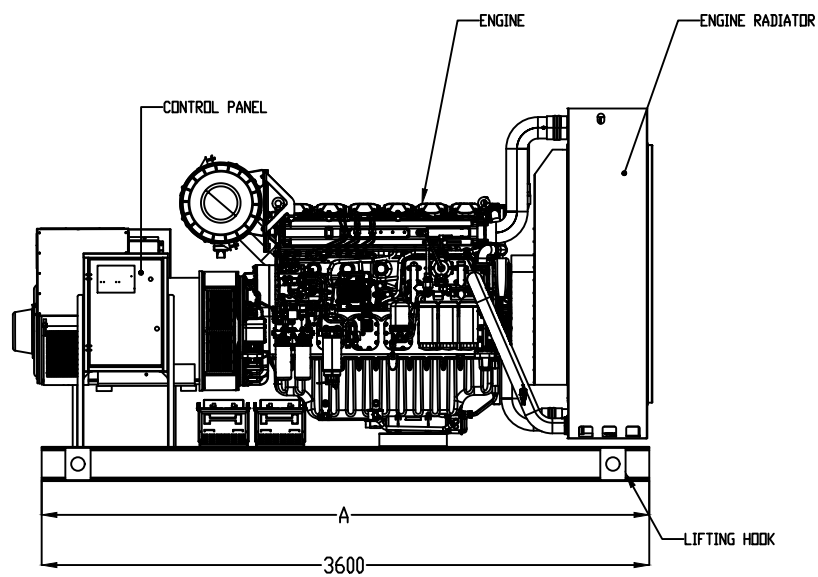
INSPECTION DIMENSION  
DRAWING REVISION

\*NOTE: LOCATION OF COLANT HEATER AND BATTERIES ARE DIFFERENT FOR EACH ENGINE MODEL

NON SPECIFIED TOLERANCES			
PART TOLERANCE TABLE		GENERAL TOLERANCES	
DIAPHRAM	TOLERANCE	DIAMETERS	ANGULAR
0 - 40	± 0.05	F8/F7	± 2°
40 - 125	± 0.08	H8/h7	
125 - 400	± 0.12	H9/h8	
400 - 2000	± 0.15	H9/h8	
		MATERIAL	ITEM WEIGHT FINISH



CHASIS TOP VIEW



ANCHORING TEMPLATE

DIMENSION		
ELEMENT	MAX	MIN
A	3600 mm	4100 mm
B	2000 mm	2500 mm
C	2207 mm	2507 mm

DEPT: ENGINEERING	DATE: 18/08/2023	DRAWING: JMRS	REVISED: RMMH	APPROVED: DLH
SCALE: N/A	CUSTOMER: UL DIESEL STD	DRAWING No: GSBB306000S		

TITLE: BASE FRAME OPEN GENSET BAUDOIN 600-644KW	REV: SHEET 1 DE 1
-------------------------------------------------	-------------------

IGSA S.A. DE C.V.  
IGSA S.A. DE C.V. AV. DEL ESTE 100, COL. CALABAZA, CP 04410, STA. CARRILLO, VERACRUZ, PUEBLA, MEXICO. TEL: +52 (987) 771 1111. FAX: +52 (987) 771 1112. WWW.IGSA.COM.MX

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2345744-0  
**Report Reference** AU6440-20231107  
**Date** 10-Nov-2023

**Issued to:** IGSA S A DE C V  
PROLONGACION PASEO DE LA REFORMA # 2977  
COL CUAJIMALPA  
MEXICO, Mexico 05000  
Mexico

**This is to certify that representative samples of** FTSR - Engine Generators  
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 2200, 2nd Ed., Issue Date: 2012-06-01, Revision Date: 2015-07-29

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

*Deborah Jennings-Conner*

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2345744-0  
**Report Reference** AU6440-20231107  
**Date** 10-Nov-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

<b>Model</b>	<b>Category Description</b>
GSBD00700S, GSBD00700L, GSBD00700LT GSBD00700W	Engine Generators
GSBD00800S, GSBD00800L, GSBD00800LT GSBD00800W	Engine Generators
GSBD01000S, GSBD01000L, GSBD01000W	Engine Generators
GSBD01300S, GSBD01300L, GSBD01300W	Engine Generators
GSBD01500S, GSBD01500L, GSBD01500W	Engine Generators
GSBD01700S, GSBD01700L, GSBD01700W, GSBD01750S, GSBD01750L	Engine Generators
GSBD01800S, GSBD01800L	Engine Generators
GSBD02000S, GSBD02000L	Engine Generators
GSBD02300S, GSBD02300L	Engine Generators
GSBD02500S, GSBD02500L	Engine Generators
GSBD02640S, GSBD02640L	Engine Generators
GSBD02800S, GSBD02800L	Engine Generators
GSBD03000S, GSBD03000L	Engine Generators
GSBD03300S, GSBD03300L	Engine Generators
GSBD30600S, GSBD30600L, GSBD30600LT GSBD30600W	Engine Generators
GSBD30633S, GSBD30633L, GSBD30633LT GSBD30633W	Engine Generators
GSBD30644S, GSBD30644L, GSBD30644LT GSBD30644W	Engine Generators

*Deborah Jennings-Conner*  
Deborah Jennings-Conner, VP Regulatory Services



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-2339551-0  
**Report Reference** AU6440-20231107  
**Date** 10-Nov-2023

**Issued to:** IGSA S A DE C V  
PROLONGACION PASEO DE LA REFORMA # 2977  
COL CUAJIMALPA  
MEXICO, Mexico 05000  
Mexico

**This is to certify that representative samples of** FTSR7 - Engine Generators Certified for Canada  
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.


**Standard(s) for Safety:** CSA C22.2 No. 14, Edition 13, Issue Date 2018-03, Revision Date 2022-06

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

  
Deborah Jennings-Conner, VP Regulatory Services

UL LLC



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-2339551-0  
**Report Reference** AU6440-20231107  
**Date** 10-Nov-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

<b>Model</b>	<b>Category Description</b>
GSBD00700S, GSBD00700L, GSBD00700LT GSBD00700W	Engine Generators
GSBD00800S, GSBD00800L, GSBD00800LT GSBD00800W	Engine Generators
GSBD01000S, GSBD01000L, GSBD01000W	Engine Generators
GSBD01300S, GSBD01300L, GSBD01300W	Engine Generators
GSBD01500S, GSBD01500L, GSBD01500W	Engine Generators
GSBD01700S, GSBD01700L, GSBD01700W, GSBD01750S, GSBD01750L	Engine Generators
GSBD01800S, GSBD01800L	Engine Generators
GSBD02000S, GSBD02000L	Engine Generators
GSBD02300S, GSBD02300L	Engine Generators
GSBD02500S, GSBD02500L	Engine Generators
GSBD02640S, GSBD02640L	Engine Generators
GSBD02800S, GSBD02800L	Engine Generators
GSBD03000S, GSBD03000L	Engine Generators
GSBD03300S, GSBD03300L	Engine Generators
GSBD30600S, GSBD30600L, GSBD30600LT GSBD30600W	Engine Generators
GSBD30633S, GSBD30633L, GSBD30633LT GSBD30633W	Engine Generators
GSBD30644S, GSBD30644L, GSBD30644LT GSBD30644W	Engine Generators

*Deborah Jennings-Conner*  
Deborah Jennings-Conner, VP Regulatory Services



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** MH63698  
**Report Reference** MH63698-20200103  
**Issue Date** 2020-JANUARY-08

**Issued to:** IGSA S A DE C V  
PROLONGACION PASEO DE LA REFORMA 2977  
COL CUAJIMALPA  
05000 MEXICO  
DF MEXICO

**This certificate confirms that representative samples of** SPECIAL-PURPOSE TANKS  
Secondary Containment Generator Base Tanks

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 142, STANDARD FOR STEEL ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS.  
UL 142A STANDARD FOR SPECIAL PURPOSE ABOVEGROUND TANKS FOR SPECIFIC FLAMMABLE OR COMBUSTIBLE LIQUIDS.  
CAN/ULC S601, STANDARD FOR SHOP FABRICATED STEEL ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS.

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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