



NETWORK

ENVIRONMENTS

Data Sheet
Diesel Generator Set

GSBD22300L-UL



► Model

GSBD22300L-UL

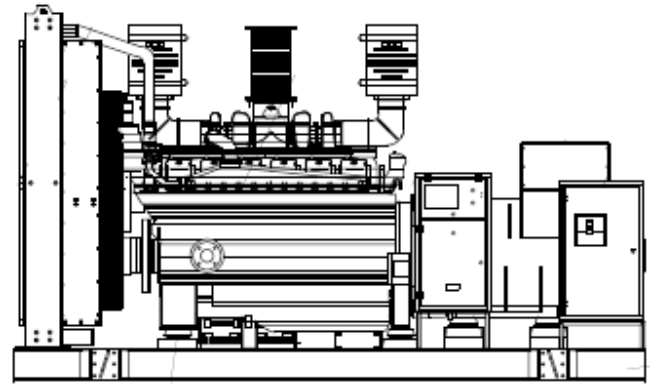
ENGINE BRAND

**BAUDOUIN**

ENGINE MODEL

**12M55G4D2/6**

ALTERNATOR BRAND

**LEROY SOMER**GENERATOR
CONTROLLER**DSE 7310**

► GENSET RATING

ENGINE	ALTERNATOR	VOLTAGE	PH	Hz	STANDBY POWER		POWER FACTOR	CURRENT
		V			kW	KVA		A

	LSA52.3 L12	480/277	3	60	2300	2760	0.8	3462
12M55G4D2/6	LSA 52.3 UL16	600/346	3	60	2300	2760	0.8	2769

► 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 _____	► BAUDOUIN
» MODEL _____	► 12M55G4D2/6
» EXHAUST EMISSIONS _____	► TIER 2
» RPM _____	► 1800
» STANDBY RATING kW _m _____	► 2500
» STANDBY RATING bhp _____	► 3353
» PRIME RATING kW _m _____	► 2000
» PRIME RATING bhp _____	► 2950
» NUMBER OF CYLINDERS _____	► 12
» ASPIRATION _____	► TURBOCHARGED AND AFTERCOOLED
» DISPLACEMENT in ³ _____	► 4006
» ENGINE AIR FLOW CFM(m ³ /min) _____	► 6861
» GOVERNOR TYPE _____	► ELECTRONIC
» CONTROL VOLTAGE V _____	► 24
» BORE/STROKE, in _____	► 7.08X8.46(180x215)
» COOLANT CAPACITY WITHOUT RADIATOR gal _____	► 80.83
» OIL CAPACITY, TOTAL gal _____	► 121.51

► FUEL CONSUMPTION

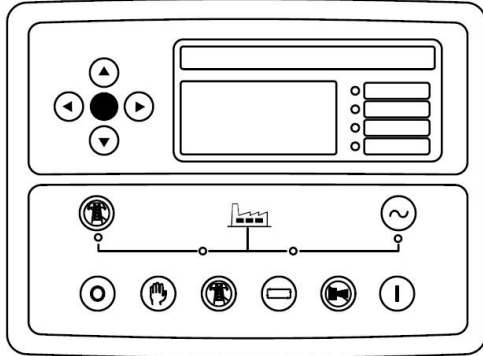
STANDBY POWER		
LOAD	GAL /hr	L/hr
100%	162.86	616.5
75%	115.12	435.8
50%	80.4	304.2
25%	44.4	167.9

► ALTERNATOR FEATURES

» BRAND _____	► LEROY SOMER
» MODEL _____	► LSA52.3 L12
» 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 DSE7320 MKII 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 and 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 and 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 and 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 and stop capability via SMS messaging
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support

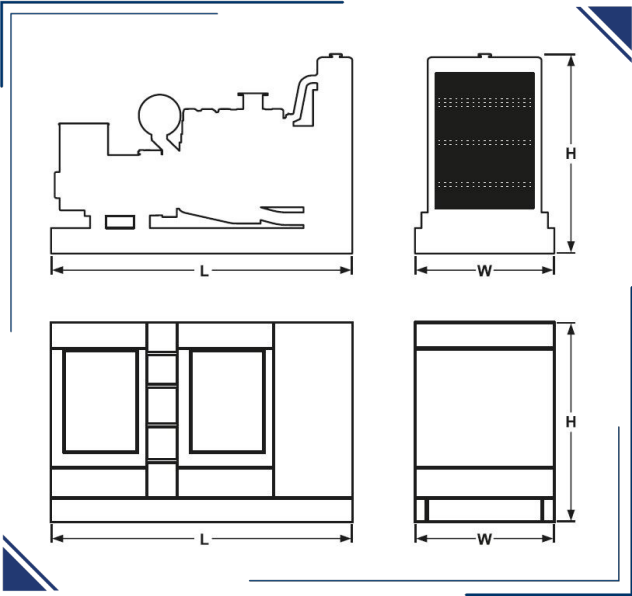
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Modules can be integrated into building management system (BMS) using MODBUS RTU

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 and 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
	253.3	110.2	125.8		
ENCLOSED GENSET LEVEL 2					
DIMENSION	Length (L)	Width (W)	Height (H)	Weight	Noise Level
	IN			Lbs	dB
	353.3	122	143.8		

► 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

✓ DSE 9470 Battery Charger	✓ Emergency Stop Button
✓ Battery and Battery Rack	✓ Flex Fuel Lines
✓ ABB Main Line Circuit Breaker	✓ Protection Covers for Rotating Parts
✓ D550AVR	✓ Exhaust Insulation Cover
✓ Hotstart Pre heater 2 RMP-CSM10902-000	✓ Anti Vibration Pads between Engine/Alternator & Base Frame
✓ Residential Grade Silencer Open Unit	✓ Operation and Maintenance manuals
✓ Critical Grade Silencer Inside Enclosure	✓ 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) SKIRT NOT INCLUDED
GSM/GPS ANTENNA 3M RG-174, GSM-SMA(M), GPS-SMA(F)	Spring Isolator- Seismic/Restraint (ACE 821 Series) SKIRT NOT INCLUDED
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)	4700		
Dimensions (L/W/H) in			
Weight lbs			