



MARINE



INDUSTRY



MEDICAL



DATA CENTER



TRANSPORT



EMERGENCY

## Diesel Generator Set

 **Baudouin**  
MOTEURS

1650 kVA  
1900 kVA  
2000 kVA  
2250 kVA  
2500 kVA  
2750 kVA



### Description

SEAPOWERTM Power Generation commercial generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power and continuous duty applications.

### Features

SEAPOWERTM heavy-duty engine - Rugged 4-cycle industrial diesel delivers reliable power, low emissions and fast response to load changes.

**Alternator :** Low reactance 2/3 pitch windings; low waveform distortion with non-linear loads, fault clearing short-circuits capability, and class H insulation.

**Cooling System:** The standard integrated kit model radiator system designed and tested for nominal ambient temperatures, simplifies facility design requirements for heat rejected.

**Canopy Types :** Optionally it is possible to make it protective and soundproof against adverse climatic conditions

**Control System :** Datakom electronic control is standard equipment and provides total genset system integration, including auto remote start/stop, alarm and status message display.

**Warranty and Service :** Backed by a comprehensive warranty and worldwide after-sales support, 10 years of spare parts supplying.

**Stand by Rating (ESP):** It is the way that generators operate under variable load at certain intervals. It can work as a backup power. It is not suitable to work under extreme load.

**Prime Rating (PRP):** Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

# Diesel Generator Set

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GENERATOR SET SPECIFICATIONS							
Governor Regulation Class	ISO 8528 G3						
Voltage Regulation, No Load to Full Load	±1%						
Random Voltage Variation	±1%						
Frequency Regulation	Isochronous						
Random Frequency Variation	± 0.25%						
EMS Compatibility	In compliance with BS 800 and VDE levels G and N						
ENGINE SPECIFICATIONS							
Engine Brand	Baudouin Engine						
Aspiration Type	Turbocharged						
Engine Rated Speed	1500 rpm						
Bore	150 mm (1650-1900-2000-2250-2500 kVA)			180 mm (2750 kVA)			
Stroke	185 mm (1650-1900-2000-2250-2500 kVA)			215 mm (2750 kVA)			
Displacement	39.2 L (1650 kVA)	52.3 L (1900-2000-2250 kVA)	65.4 L (2500 kVA)	65.65 L (2750 kVA)			
Cylinder Block	12 cylinder,vertical (1650-2750 kVA)		16 cylinder,vertical (1900-2000-2250 kVA)		20 cylinder,vertical (2500 kVA)		
Oil Capacity	117 / 155 L (1650 kVA)	114 / 171 L (1900-2000-2250 kVA)	210 / 240 L (2500 kVA)		380/ 480 L (2750 kVA)		
Coolant Capacity for Engine / Radiator and Pipes	83/220L (1650kVA)	130/270 L (1900kVA)	130/412 L(2000-2250kVA)	140/270 L(2500kVA)	306/270 L (2750kVA)		
Starting Voltage	24 V						
Fuel System	Direct Injection						
Fuel Filter	Strata Pore Fuel Filter						
Air Cleaner Type	Heavy Duty Air Cleaner						
Compression Ratio	15:1 (1650-1900-2000-2500 kVA)		14:1 (2250 kVA)		16.5 : 1 (2750 kVA)		
Cycle	4 Stroke						
Cooling System	Liquid (Water + 50% Antifreeze)						
Governor Type	Electronic(1650-1900-2250-2500-2750 kVA)				ECU (2000 kVA)		
	Power	1650 kVA	1900 kVA	2000 kVA	2250 kVA	2500 kVA	2750 kVA
Fuel Consumption	at 25% of generator set prime output	84 L/hr	99.9 L/hr	105.5 L/hr	112.7 L/hr	131 L/hr	143,7 L/hr
	at 50% of generator set prime output	156,1 L/hr	179,7 L/hr	194.7 L/hr	208.8 L/hr	240,5 L/hr	263,3 L/hr
	at 75% of generator set prime output	234,2 L/hr	265,4 L/hr	290.7 L/hr	311.3 L/hr	360.7 L/hr	381,3 L/hr
	at 100% of generator set prime output	324 L/hr	364,3 L/hr	401 L/hr	428.6 /hr	466.4/hr	513,6 /hr
	at 100% of generator set stand by output	354,2 L/hr	407,6 L/hr	446.8 L/hr	484.6 L/hr	538,5 L/hr	577,2 L/hr
ALTERNATOR SPECIFICATIONS							
Alternator Brand	Megatron						
Type	Brushless, Revolving Field						
Frequency	50 Hz						
Winding Pitch	2/3						
Number of Bearing	Single Bearing						
Protection	IP23						
Insulation System	Class H						
Standard Temperature Rise	Standart 125°C, Stand by 163°C						
Exciter Type	Self - Excitation or Other Excitation by PMG						
Phase Rotation	A (U), B (V), C (W)						
Alternator Cooling	Direct Drive Centrifugal Blower Fan						
AC Waveform Total Harmonic Distortion (THDV)	No Load <1.5%. Non Distorting Balanced Linear Load <5%						
Telephone Influence Factor (TIF)	<50% per NEMA MG1-22.43						
Telephone Harmonic Factor (THF)	<2%						

Seapower reserves the right to change or modify product design, construction, specifications, or materials without prior notice.

Genset Model	Engine Model	Prime rating	Stand by rating
MT 1650 B&M	12M33G1650/5	1500 kVA	1650 kVA
MT 1900 B&M	16M33G1900/5	1726 kVA	1900 kVA
MT 2000 B&M	16M33G2000/5	1818 kVA	2000 kVA
MT 2250 B&M	16M33G2250/5	2045 kVA	2250 kVA
MT 2500 B&M	20M33G2500/5	2273 kVA	2500 kVA
MT 2750 B&M	12M55G2750/5	2500 kVA	2750 kVA

## FEATURES

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

## CONTROL SYSTEM

The D-500LITE MK2 is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

### Functionalities

- AMF unit
- ATS unit
- Remote Start Controller
- Manual Start Controller
- Engine Controller

### Topologies

- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires

### Communication

- USB Device
- J1939-CANBUS
- Geo-locating through GSM
- Internet Central Monitoring
- SMS Message Sending
- E-mail Sending
- Free Pc Software: RainbowPlus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

### Remote Monitoring (OPTIONAL)

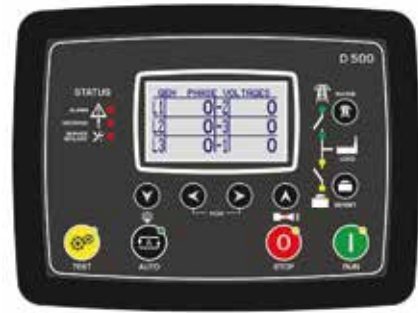
- Single server supports up to 60'000 devices
- Provides data security, data is sent to only server
- Uses internet-based interactive World map
- Real time display of status of devices are shown on the map, and on side panel
- Hierarchical configuration and clustering
- Remote control of devices
- Supports all Datakom products, which are integrated with DKG 210 gateway
- Supports all devices, which supports Modbus protocol, by integrating DKG 210 gateway
- Data recording, analysis and reporting
- Tablet and smartphone interfaces

### PLUG-IN Modules (OPTIONAL)

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi (802.11 b/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

### Measurements

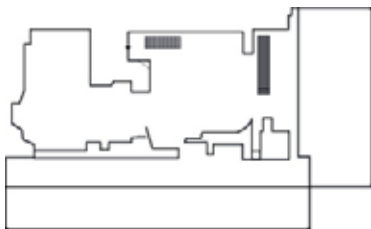
- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVA<sub>r</sub>, pf
- Engine speed
- Battery voltage



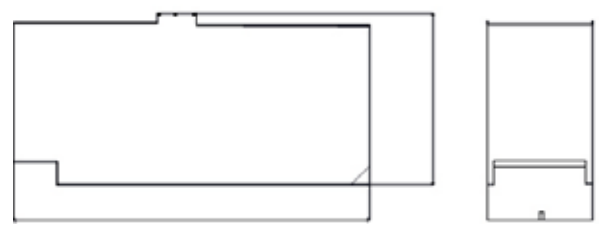
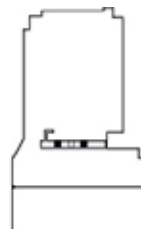
D-500LITE MK2 Control  
Operator / Displaypanel

### Canopy Standart Specifications

- Compact design connection with non-welded nuts andbolts.
- Integrated canopy,generator set,exhaust system fueltank.
- Body made from steel components treated with polyesterpowder coating
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on cabin exterior
- Fuel fill and battery can only be reached via lockableaccess doors.
- Customer options available to meet your applicationsneeds.
- Katana makes its generating sets noise level tests in accordance with directive 2000/14/EC validation of thenoise level test has been aproved by the notified bodySzutest (CE conformity assessment body).



Open Type



Enclosure

Power	Type	Dry Weight (kg)	Lenght (mm)	Width (mm)	Height (mm)	Tank Capacity (L)
1650 kVA	Open type	9500	6000	2350	2800	2200
	Canopy	11000	6000	2350	3500	2200
1900 kVA	Open type	12600	7000	2550	3600	1100
	Canopy	14000	7000	2550	3600	1100
2000 kVA	Open type	12600	7000	2550	3600	1100
	Canopy	14000	7000	2550	3600	1100
2250 kVA	Open type	13600	7000	2550	3600	1100
	Canopy	15000	7000	2550	3600	1100
2500 kVA	Open type	16500	8500	3000	3800	1100
	Canopy	19000	8500	3000	3800	1100
2750 kVA	Open type	17500	8500	3000	3800	1100
	Canopy	20000	8500	3000	3800	1100