



Gensets
Large Range

BAUDOIN
MOTORS

STAMFORD
power generation



Technical Data

Diesel Generating Set

GENSET Make / Model	Baudoin 6M21G500/5
Alternator Make / Model	Stamford Tech 354D
Control Panel	DSE 6020
Base Frame / Canopy	Robust Structure / Corrosion Resistant
Circuit Breaker Type	3-Pole MCCB (4-Pole Available as option)
Built-In Fuel Tank Capacity (Silent)	700L (Centrum)
Battery	2 X 150A

Engine Specifications

Make & Model	Baudoin 6M21G500/5
Cylinder & Arrangement	6; In Line
Cycle	4 stroke
Induction System / Aspiration	Turbocharged
Cooling System	Water cooled
Governing	Electronic
Governing Class	ISO 8528-5 Class G3
Compression Ratio	16 : 1
Displacement	12.54
Bore & Stroke	127 x 165 mm
Dynamic Charging Alternator	70 AMP, 24V

Lubrication System

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	34.0 L
Oil Type	15w40

Cooling System

Total Coolant Capacity	22.0 L	Cooling System Design	50°C
Cooling Fan Air Flow	478 m ³ /s	Heat Radiation to Room	54.6 kJ/s
Max Water Temperature	98°C		

Air System

Air Filter Type	Dry Element
Max Air Filter Intake Restriction	35 mBar

Exhaust System

Muffler Type	Industrial Grade
Max Back Pressure	120 mBar
Exhaust Gas Flow	99.0 m ³ / min
Exhaust Gas Temperature	≤740° C

Ratings @ 0.8 PF

**50 Hz
1500 RPM**

VOLTAGE	PRIME RATING	STANDBY RATING
400/3 Ph	450 KVA	500 KVA

NOTES

Prime Power

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period.

A 10% overload is available for 1 hour in every 12 hour operation.

Standby Power

Limited to 500 hours annual usage

Available in 60HZ for all voltage ratings

Standard Reference Conditions

Note: Standard reference conditions 40°C (104°F) Air inlet temp, 100m (328 ft.) A.S.L. 30% relative humidity.

Standards Compliance



Dimensions

	Open Type	Silent	Super Silent
Length:	3300mm	6050mm	6050mm
Width:	1150mm	2440mm	2440mm
Height:	1700mm	2440mm	2440mm
Weight:	2700kg	9600kg	11500kg

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Gensets
Medium Range

Baudouin
MOTEURS

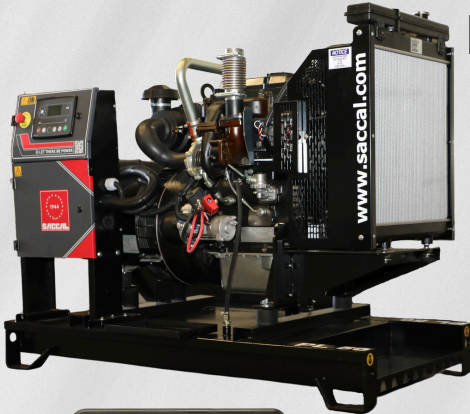
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Engine Fuel System

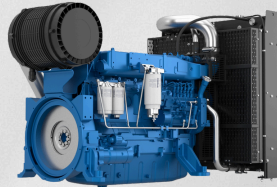
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	110.1 L/hr
Fuel Consumption @100% PRP	95.9 L/hr
Fuel Consumption @75% PRP	69.6 L/hr
Fuel Consumption @50% PRP	46.6 L/hr

Alternator Specifications

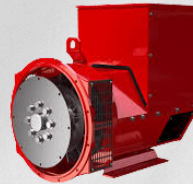
Alternator Make / Model	Stamford Tech 354D
AVR Model	AS440
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Excitation System	Self Excited
Ingress Protection Rating	IP23
Cooling Airflow	1.035 m ³ / Sec
Voltage Regulation	±1%
Harmonic Coefficient THF	< 2%
Tel. Influence TIF	< 50
Insulation Class	H



Controller



Engine



Alternator



Saccal Enclosure / Canopy

Controller Make / Model	DeepSea 6020
Operation Mode	Auto-Start & AMF
Display	Graphic Backlit LCD (128x64px)
Ingress Protection Rating	IP65
Binary Inputs/Outputs	4/4
Analog Inputs	3
Measurements	Vac, A, Hz, KVA, KW, Vdc
Event Log	Alarms Log, Hrs Log
Communication	USB

Canopy Type	SILENT	SUPER SILENT
Enclosure Type	Acoustic & Weather Proof	
Drainage	Fuel and Water Drainage Provision	
Transportation	Tested Single Point Lifting Facility & Forklift Pockets	
Ingress Protection	IP23	
Lifting	ISO Standard Lifting	
Canopy RAL Color	RAL 9002 - Powder Coated	
Base Frame RAL Color	RAL 9005 - Powder Coated	
Noise Pressure Level db(A) @ 1m @75% Load	71	65

SACCAL TOOL BOX

Standard for every GenSet

- Heat Resistant Gloves
- Notebook
- Pen
- Tape Measure
- Baseball Cap
- Owner & Operation Manual
- Wiring Diagrams
- Sound Test (Upon Request)

Why Saccal Generators ?

Saccal Industries is one of the leading Diesel Generator OEM firms in the **MENA** Region

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From planning and design, construction and production, to local and international sales, Saccal Has more than 80 Years of experience.

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