



Gensets
Small Range

MOTEURS
Baudouin

STAMFORD
power generation

Ratings
@ 0.8 PF

50 Hz
1500 RPM

| VOLTAGE | PRIME RATING | STANDBY RATING |
|----------|--------------|----------------|
| 400/3 Ph | 20 KVA | 22 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: | 1350mm | 2280mm | 3520mm |
| Width: | 750mm | 940mm | 1070mm |
| Height: | 1200mm | 1280mm | 1560mm |
| Weight: | 500kg | 840kg | 1100kg |

Technical Data

Diesel Generating Set



| | |
|---|--|
| GENSET Make / Model | Baudouin 4M06G25/5 |
| Alternator Make / Model | Stamford Tech 1B4ES |
| Control Panel | DSE 4520 |
| Base Frame / Canopy | Robust Structure / Corrosion Resistant |
| Circuit Breaker Type | 3-Pole MCCB (4-Pole Available as option) |
| Built-In Fuel Tank Capacity (Silent) | 50L |
| Battery | 1 X 50A |

Engine Specifications

| | |
|--------------------------------------|---------------------|
| Make & Model | Baudouin 4M06G25/5 |
| Cylinder & Arrangement | 4; In Line |
| Cycle | 4 stroke |
| Induction System / Aspiration | Natural |
| Cooling System | Water cooled |
| Governing | Electronic |
| Governing Class | ISO 8528-5 Class G3 |
| Compression Ratio | 17.5:1 |
| Displacement | 2.3 |
| Bore & Stroke | 89 x 92 mm |
| Dynamic Charging Alternator | 55 AMP, 12V |

Lubrication System

| | |
|---------------------------|-------------------|
| Oil Filter Type | Spin-On Full Flow |
| Total Oil Capacity | 7.1 L |
| Oil Type | 15w40 |

Cooling System

| | |
|-------------------------------|----------------------|
| Total Coolant Capacity | 3.2 L |
| Cooling Fan Air Flow | 48 m ³ /s |
| Max Water Temperature | 98°C |
| Cooling System Design | 50°C |
| Heat Radiation to Room | 3.5 kJ/s |

Air System

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

Exhaust System

| | |
|--------------------------------|---------------------------|
| Muffler Type | Industrial Grade |
| Max Back Pressure | 80 mBar |
| Exhaust Gas Flow | 5.32 m ³ / min |
| Exhaust Gas Temperature | ≤700° C |



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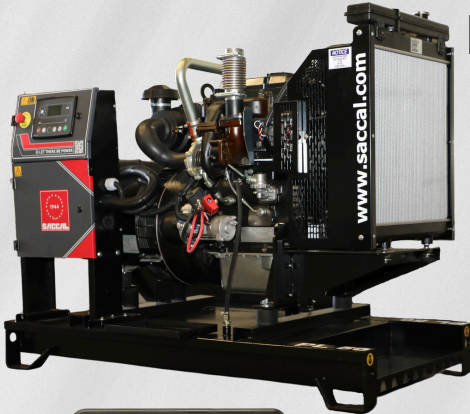
STAMFORD
power generation

Engine Fuel System

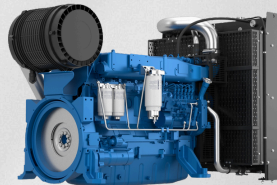
| | |
|----------------------------|-----------------|
| Recommended Fuel | Class A2 Diesel |
| Fuel Consumption Standby | 7.1 L/hr |
| Fuel Consumption @100% PRP | 6.1 L/hr |
| Fuel Consumption @75% PRP | 4.5 L/hr |
| Fuel Consumption @50% PRP | 3.2 L/hr |

Alternator Specifications

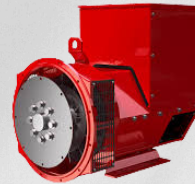
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|---------------------------|----------------------------|
| Alternator Make / Model | Stamford Tech 184ES |
| AVR Model | SX460 |
| Number of Poles | 4 |
| Number of Winding Leads | 6 |
| Type of Bearing | Single Bearing |
| Excitation System | Self Excited |
| Ingress Protection Rating | IP23 |
| Cooling Airflow | 0.095 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 4520 |
| 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

With an impressive Factory that spreads over an area of 30 thousand square meters in Bekaa & ISO certification, SACCAL has always been the leading name in the manufacturing and assembly of premium quality generating sets.

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