

## VGB-18 TA DIESEL GENERATOR



### GENERATOR OUTPUT

TEMPERATURE	PRIME	STANDBY
50 C	23 KVA	25.3 KVA
50 C	18.4 KW	20.24 KW

Frequency: 60Hz  
Voltage: 400 V  
Engine Speed: 1800 RPM  
Fuel Tank Run Time: 12hrs @ 75% load

### BAUDOQUIN MOTEURS

#### FEATURES

Low in fuel consumption  
Low exhaust emissions

**DURABILITY AND LOW NOIS**  
70 dB(A) @ 7M +/- 3dB(A)

#### ELECTRICAL SYSTEM

12V negative earthed starter, battery charging alternator.

#### FILTERING SYSTEM

Heavy Duty Air Cleaner

### LEROY-SOMER ALTERNATOR

#### APPLICATIONS

The TAL alternator range is designed to meet the needs of general applications such as prime power and stand-by.

#### STANDARD OF COMPLIANCE

The TAL range complies with international standards and regulations: IEC 60034 and derivative.

The range is designed, manufactured and marketed in an ISO 9001 and 14001 environment.

#### TOP OF THE RANGE ELECTRICAL PERFORMANCE :

Class H insulation

Standard 6(12 option ) wire re-connectable winding, and 2/3 pitch High efficiency and motor starting capacity



### GENERATOR SPECIFICATIONS

#### Engine

Manufacturer: Baudouin Moteurs  
Engine Model: 4M06G2D0/S  
Engine Speed: 1800 RPM  
Type: In-Line, 4 cycle  
Number of Cylinder: 4  
Bore x Stroke: 89\*92 mm  
Displacement: 2.3 L  
Compression Ratio: 17.5 : 1  
Fuel System: Mechanical Pump  
Governor: Electronic  
Fuel Consumption at 75% load: 5 L/h (prime)  
Flywheel: SAE 4 / 7.5

#### Alternator

Manufacturer: LEROY-SOMER  
Model: TAL040F  
Control System: Shunt Excitation  
Voltage Regulation: +/- 1%  
Insulation Class: Class H  
Protection: IP23  
Rated Power Factor: 0.8  
Stator Winding: Double Layer Lap  
Winding Pitch: 2/3  
Winding Leads: 6 (12 option)  
Total Harmonic Distortion THD: No Load < 2%  
Total Harmonic Distortion: In linear load THD < 5%  
Maximum Overspeed: 2250 R.P.M

#### Overall Specification

Dimensions ( L x W x H ): 2250 x 964 x 1520 mm  
Wet Weight: 1882.1 kg  
Sound Level: 78 dB(A) @ 7m +/- 3 dBA  
Ambient Temperature: 50 °C  
Altitude: 0 m  
Relative Humidity: Below 90%  
Coolant capacity: 8.6 L  
Fuel Tank Capacity: 3.6 litres  
Total oil capacity (including filters): 9.5 L

### CONDITIONS AND DEFINITIONS

#### PRIME POWER RATING

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.

#### STANDBY POWER RATING

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.

#### STANDARD REFERRED

ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±5%.

### DEEP SEA CONTROLLER DSE6120 MKI

The DSE4520 module monitors the engine, indicating the operational status and fault conditions.

automatically shutting down the engine and giving a true first up fault condition of an engine failure by the text LCD display.



#### Features

Text based LCD display  
True RMS Voltage  
Current and Power monitoring  
USB Communications  
Engine parameter monitoring.  
Fully configurable inputs for use as alarms or a range of different functions.  
Data Logging

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