



# EDB-51

Gen - Set

## TECHNICAL DATA SHEET

### Engine Specifications

|                             |                     |
|-----------------------------|---------------------|
| Manufacture                 | Baudouin            |
| Engine Model                | 4M06G8D0/S          |
| No. of Cylinders            | 4 vertical in-line  |
| Cycle                       | 4 strokes           |
| Aspiration                  | Turbocharged        |
| Cooling Method              | Water Cooled        |
| Governing Type              | Electronic          |
| Governing Class             | G2- ISO 8528 Part 1 |
| Compression Ratio           | 17.5:1              |
| Displacement                | 2.3 L               |
| Bore/Stroke                 | 89 x 92 mm          |
| Dynamic Charging Alternator | 65 AMP, 12V         |

### Alternator Specifications

|                           |                     |
|---------------------------|---------------------|
| Manufacture               | Leroy Somer         |
| Alternator Model          | TAL-042F            |
| Number of Poles           | 4                   |
| Number of winding leads   | 6                   |
| Type of Bearing           | Single Bearing      |
| Ingress Protection Rating | IP 23               |
| Insulation Class          | Cont. H – 125/40° C |
| Excitation System         | Self-Excited        |
| AVR                       | R120                |

### Output Rating

| Prime                          |        | Standby |        |
|--------------------------------|--------|---------|--------|
| 1800 RPM - 60 Hz , 480 V , 3Ph |        |         |        |
| 37 Kw                          | 47 Kva | 41 Kw   | 51 Kva |

### GENERAL SPECIFICATIONS

#### Rating:

- **Prime Rating:**  
Unlimited hours usage, with an average load factor of 80% over each 24 hour period. 10% overload is available for 1 hour in every 12 hours operation. Overload is permitted on standby power.
- **Standby Rating:**  
Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

#### Engine:

Baudouin engine

#### Alternator:

Brushless AC alternator

#### Circuit Breaker:

3 Pole LS MCCB





## Control System



### DSE 4520 MKII

AUTO STAR &  
AUTO MAINS  
FAILURE

- Large back-lit text display
- Multiple display languages
- DSENet® expansion compatible
- Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- Efficient power save mode
- 3 phase generator sensing
- Accumulated power monitoring (kW h, kVA h, kVAR h)
- Generator/load current monitoring and protection
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Automatically transfers between mains (utility) and generator
- Increased input and output expansion capability via DSENet®

## Dimensions

| Type  | Length (mm) | Width (mm) | Height (mm) | Fuel Tank (L) | Weight (KG) |
|-------|-------------|------------|-------------|---------------|-------------|
| Open  | 1750        | 700        | 1100        | 70            | 790         |
| Close | 2100        | 870        | 1165        | 100           | 1005        |



## Comply with Standards

ISO 3046, BS 5514, DIN 6271, NEM -MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

## Acoustic Enclosure Specifications

|                           |   |
|---------------------------|---|
| Enclosure Type            | Acoustic & Weather Proof                                |
| Drainage                  | Fuel and Water Drainage Provision                       |
| Transportation            | Tested Single Point Lifting Facility & Forklift Pockets |
| Ingress Protection Rating | IP 23   |
| Lifting                   | ISO Standard Lifting                                    |
| Canopy RAL Color          | TAL 9010  |
| Base frame RAL Color      | RAL 9011  |
| Noise Pressure level @ 7m | 70 dB @ 7 m   |

## Fuel System

| Recommended Fuel          | Class A2 Diesel |
|---------------------------|-----------------|
| Fuel Consumption Standby  | 15.5 L/hr       |
| Fuel Consumption 100% PRP | 11.1 L/hr       |
| Fuel Consumption 75% PRP  | 6.8 L/hr        |
| Fuel Consumption 50% PRP  | 3.8 L/hr        |