



| Rating @ 0.8 PF       |                     | Prime rating        | Stand-by rating      |
|-----------------------|---------------------|---------------------|----------------------|
| Voltage <sup>*1</sup> | Freq. <sup>*2</sup> | PT100 <sup>*3</sup> | PT110S <sup>*4</sup> |
| 400 V                 | 50 Hz               | 100.0 KVA           | 110.0 KVA            |
| 480 V                 | 60 Hz               | 112.5 KVA           | 125.0 KVA            |

The above ratings represent the generating set capability guaranteed within  $\pm 3\%$  at the reference conditions equivalent to those specified in ISO 8528/1, ISO 3046/1 and BS 5514/1

## NOTES

- 1 - The applicable voltage range is 380V to 415V for 50Hz applications and 380V to 480V for 60Hz applications.
- 2 - This generating set is of switchable speed of 1500rpm/1800rpm.
- 3 - PT100 is the prime power rating of the generating set, where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation.
- 4 - PT110S is the standby power rating of the generating set, where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted.

## Engine Technical Data

|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| Model                     | Perkins 1006TG2A          |                           |
| Cylinders                 | 6; vertical in-line       |                           |
| Aspiration                | Turbocharged              |                           |
| Combustion                | Direct injection          |                           |
| Cooling System            | Water cooled              |                           |
| Displacement              | 5.99 L                    |                           |
| Oil consumption           | 0.5 % of fuel consumption |                           |
| Lube oil capacity         | 16.1 L                    |                           |
| Coolant capacity          | 27.7 L                    |                           |
| Governor                  | Mechanical                |                           |
| Emissions regulations     | Non-compliant             |                           |
| Speed                     | 1500 rpm                  | 1800 rpm                  |
| Fuel Consumption PT105    | 24.3 L/H                  | 28.9 L/H                  |
| Fuel Consumption PT115S   | 27.1 L/H                  | 31.7 L/H                  |
| Radiator Cooling Air Flow | 115 m <sup>3</sup> /min   | 140 m <sup>3</sup> /min   |
| Max Exhaust Gas Flow      | 16.24 m <sup>3</sup> /min | 19.96 m <sup>3</sup> /min |

The above performance data are valid as per the following specs:

- Diesel Fuel is according to BS2869 Class A2 or equivalent.
- Lubricating oil is according to API CG4 (15W/40).
- The coolant should be 50% antifreeze and 50% fresh water.

## Alternator Technical Data

|                          |                           |                        |
|--------------------------|---------------------------|------------------------|
| Model                    | Leroy Somer LSA 44.2 VS45 |                        |
| Regulation               | $\pm 0.5\%$               |                        |
| International protection | IP23                      |                        |
| Insulation class         | H                         |                        |
| Terminals                | 12                        |                        |
| Frequency                | 50 Hz                     | 60 Hz                  |
| Coolant Air Flow         | 0.37 m <sup>3</sup> /s    | 0.44 m <sup>3</sup> /s |

## Shipping Data

| Length  | Width  | Height  | Weight  |
|---------|--------|---------|---------|
| 2050 mm | 770 mm | 1350 mm | 1100 kg |

All information given in this leaflet is correct at the time of printing but it may be changed subsequently by the Company.





 **Perkins**

## **1000 Series**

### **Diesel engine - Electropak**

# **1006TG2A**

**100.0 kWm 1500 rev/min**  
**118.0 kWm 1800 rev/min**

The Perkins 1000 Series family of Electropak engines are renowned throughout the power generation industry for their superior performance and reliability.

The 1006TG2A is a turbocharged, 6 cylinder, 6 litre engine. Its premium design features provide economic and durable operation offering the ideal characteristics for electrical power generation.

#### **Economic power**

One side servicing means reduced service time and cost.  
Unique Quadram combustion system enables high power output with lower fuel consumption and noise.  
Rated speed is changeable between 1500 rpm and 1800 rpm allowing standard builds to operate at either 50 Hz or 60 Hz.

#### **Clean, efficient power**

Operator and environmentally friendly with low noise and rapid startability and low emissions that satisfy TA Luft requirements.

#### **Durable power**

Maximum cooling efficiency is provided by a gear driven water pump and independent fan drive.  
Leak free operation is ensured by Viton crankshaft seals and sophisticated controlled swell joints, giving protection in the toughest conditions.  
Inserted valve seats, oil spray cooled pistons and compact plate cooler give enhanced engine life.

#### **Reliable power**

Wherever a Perkins' Electropak engine is put into service, it will never be far from the support provided by a global network of 4,000 distributors and dealers, all backed by a parts distribution centre giving 24 hour service, 365 days a year.  
Suitable for operation in ambient temperatures up to 53°C (46°C if a canopy is fitted).  
Fuelled starting aid for temperatures down to -20°C.

| Engine Speed<br>(rev/min) | Type of Operation | Typical Generator<br>Output (net) |       | Engine Power |       |       |       |
|---------------------------|-------------------|-----------------------------------|-------|--------------|-------|-------|-------|
|                           |                   |                                   |       | Gross        |       | Net   |       |
|                           |                   | kVA                               | kWe   | kWm          | bhp   | kWm   | bhp   |
| 1500                      | Prime Power       | 102.5                             | 82.0  | 95.5         | 128.0 | 91.0  | 122.0 |
|                           | Standby Power     | 112.5                             | 90.0  | 105.0        | 141.0 | 100.0 | 134.0 |
| 1800                      | Prime Power       | 120.5                             | 96.5  | 113.5        | 152.5 | 107.0 | 143.5 |
|                           | Standby Power     | 132.5                             | 106.0 | 125.0        | 167.5 | 118.0 | 158.0 |

All ratings data based on operation under ISO 3046 conditions using typical fan sizes and drive ratios. For operation outside of these conditions please consult your Perkins contact.

Performance tolerance quoted by Perkins is  $\pm 5\%$ .

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 90%.

**Fuel specification:** BS2869 Part 2 1998 Class A2 or ASTM D975 D2.

**Lubricating oil:** A single or multigrade oil to ACEA E2 or API CD/SD.

#### **Rating Definitions**

**Prime power** = Power available at variable load in lieu of main power network. An overload of 10% is permitted for one hour in every twelve hours of operation.

**Standby power** = Power available at variable load in the event of a main power network failure. No overload is permitted.

# 1000 Series 1006TG2A

## Standard ElectropaK Specification

### Air Inlet

Mounted air filter and turbo charger

### Fuel System

Rotary fuel injection pump  
Mechanical governing conforms to ISO 8528-5: 1993 (E)  
Class G2, ISO3046-4M3  
Spin-on full flow fuel oil and pre-filter  
Cold start aid

### Lubrication System

Flat bottomed aluminium sump  
Spin-on full flow oil filters  
Oil cooler

### Cooling System

Thermostat controlled cooling system with gear driven water pump  
Fan drive and 22" pusher fan  
Radiator (and piping) with fan guards

### Electrical System

12 Volt starter motor and 55 Amp alternator  
Oil pressure switch and coolant temperature switch

### Flywheel and Housing

Cast iron SAE 3 flywheel housing  
Flywheel to SAE J620 size 10/11½

### Mountings

Front engine mountings

## Optional Equipment

24 Volt alternator  
24 Volt starter motor  
Water temperature gauge and sender  
Heater/starter switch  
Rear engine mountings  
Workshop manual  
Parts book  
User handbook  
Electronic governor (12V only)



### Perkins Engines Company Limited

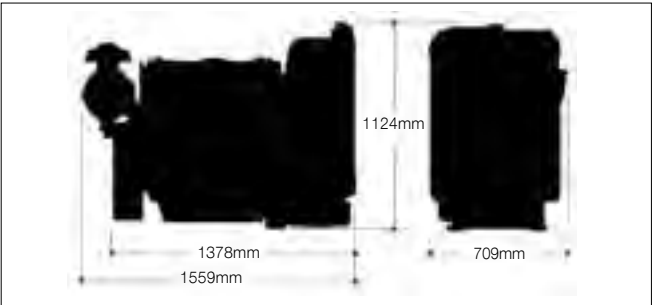
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Fax +44 (0)1733 582240  
[www.perkins.com](http://www.perkins.com)

All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company

## General Data

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Number of cylinders               | 6                                |
| Cylinder arrangement              | Vertical in-line                 |
| cycle                             | 4 stroke                         |
| Induction system                  | Turbocharged                     |
| Combustion system                 | Direct injection                 |
| Cooling system                    | Water-cooled                     |
| Displacement                      | 5.99 litres                      |
| Bore and stroke                   | 100.0 mm x 127.0 mm              |
| Compression ratio                 | 16.0:1                           |
| Direction of rotation             | Clockwise, viewed from the front |
| Firing order                      | 1,5,3,6,2,4                      |
| Total lubrication system capacity | 16.1 litres                      |
| Coolant capacity (inc radiator)   | 27.7 litres                      |
| Length                            | 1559 mm                          |
| Width                             | 709 mm                           |
| Height                            | 1124 mm                          |
| Total weight (dry)                | 586 kg                           |
| Total weight (wet)                | 623 kg                           |

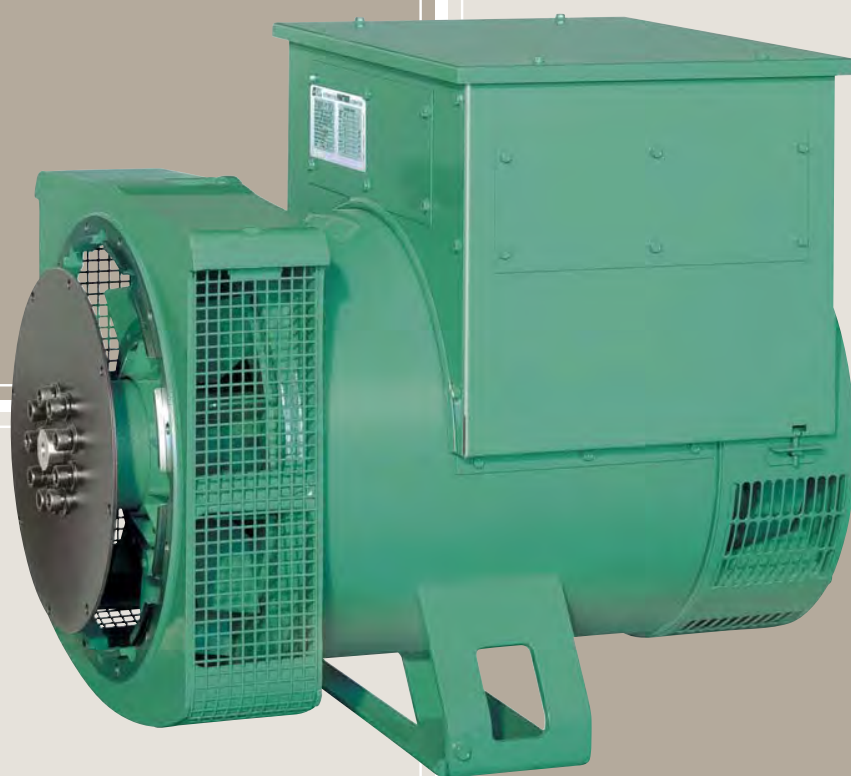
| Fuel consumption litres/hour (UK gallons/hour) |              |       |              |
|------------------------------------------------|--------------|-------|--------------|
| Power rating                                   | 1500 rev/min |       | 1800 rev/min |
| Standby power                                  | 27.1         | (5.9) | 31.7 (6.9)   |
| Prime power                                    | 24.3         | (5.3) | 28.9 (6.3)   |
| 75% of prime power                             | 17.9         | (3.9) | 21.7 (4.8)   |
| 50% of prime power                             | 12.3         | (2.7) | 15.4 (3.4)   |



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# **Alternators**

## **LSA 44.2 - 4 Pole**

**Electrical and mechanical data**

## Common data

|                  |                               |                                 |                                 |                   |
|------------------|-------------------------------|---------------------------------|---------------------------------|-------------------|
| Insulation class | H                             | Excitation system               | SHUNT                           | A R E P or PMG    |
| Winding pitch    | 2/3 ( N° 6 )                  | A.V.R. model                    | R 250                           | R 438             |
| Terminals        | 12                            | Voltage regulation (*)          | ± 0,5 %                         | ± 0,5 %           |
| Drip proof       | IP 23                         | Sustained short-circuit current | -                               | 300% (3 IN) : 10s |
| Altitude         | ≤ 1000 m                      | Total harmonic TGH / THC (**)   | at no load < 2 % - on load < 2% |                   |
| Overspeed        | 2250 min <sup>-1</sup>        | Waveform : NEMA = TIF (**)      | < 50                            |                   |
| Air flow         | 0,37 m³/s (50Hz)/ 0,44 (60Hz) | Wave form : I.E.C. = THF (**)   | < 2 %                           |                   |

(\*) Steady state duty. (\*\*) Total harmonic content line to line, at no load or full rated linear and balanced load.

## Ratings 50 Hz - 1500 R.P.M.

| kVA / kW - Power factor = 0,8 |     |                      |      |      |       |     |                      |      |      |       |    |                  |      |      |       |     |                  |      |      |       |     |
|-------------------------------|-----|----------------------|------|------|-------|-----|----------------------|------|------|-------|----|------------------|------|------|-------|-----|------------------|------|------|-------|-----|
| Duty T °C                     |     | Continuous duty 40°C |      |      |       |     | Continuous duty 40°C |      |      |       |    | Stand-by / 40 °C |      |      |       |     | Stand-by / 27 °C |      |      |       |     |
| Class / T° K                  |     | H / 125° K           |      |      |       |     | F / 105° K           |      |      |       |    | H / 150° K       |      |      |       |     | H / 163° K       |      |      |       |     |
| Phase                         |     | 3 ph.                |      |      | 1 ph. |     | 3 ph.                |      |      | 1 ph. |    | 3 ph.            |      |      | 1 ph. |     | 3 ph.            |      |      | 1 ph. |     |
| Y                             |     | 380V                 | 400V | 415V | 440V  | ΔΔ  | 380V                 | 400V | 415V | 440V  | ΔΔ | 380V             | 400V | 415V | 440V  | ΔΔ  | 380V             | 400V | 415V | 440V  | ΔΔ  |
| Δ                             |     | 220V                 | 230V | 240V | 230V  |     | 220V                 | 230V | 240V | 230V  |    | 220V             | 230V | 240V | 230V  |     | 220V             | 230V | 240V | 230V  |     |
| YY                            |     |                      |      |      | 220V  |     |                      |      |      | 220V  |    |                  |      |      | 220V  |     |                  |      |      | 220V  |     |
| 44.2 VS3                      | kVA | 90                   | 90   | 90   | 90    | 55  | 80                   | 80   | 80   | 80    | 50 | 95               | 95   | 95   | 95    | 58  | 100              | 100  | 100  | 100   | 60  |
|                               | kW  | 72                   | 72   | 72   | 72    | 44  | 64                   | 64   | 64   | 64    | 40 | 76               | 76   | 76   | 76    | 46  | 80               | 80   | 80   | 80    | 58  |
| 44.2 VS45                     | kVA | 105                  | 105  | 105  | 105   | 66  | 95                   | 95   | 95   | 95    | 62 | 110              | 110  | 110  | 110   | 69  | 116              | 116  | 116  | 116   | 72  |
|                               | kW  | 84                   | 84   | 84   | 84    | 53  | 76                   | 76   | 76   | 76    | 50 | 88               | 88   | 88   | 88    | 55  | 93               | 93   | 93   | 93    | 58  |
| 44.2 S7                       | kVA | 120                  | 125  | 120  | 120   | 73  | 110                  | 112  | 110  | 110   | 65 | 126              | 131  | 126  | 126   | 77  | 132              | 138  | 132  | 132   | 82  |
|                               | kW  | 96                   | 100  | 96   | 96    | 58  | 88                   | 90   | 88   | 88    | 52 | 101              | 105  | 101  | 101   | 62  | 106              | 110  | 106  | 106   | 66  |
| 44.2 S75                      | kVA | 130                  | 135  | 130  | 125   | 83  | 115                  | 122  | 115  | 114   | 75 | 138              | 143  | 138  | 132   | 88  | 144              | 150  | 144  | 137   | 93  |
|                               | kW  | 104                  | 108  | 104  | 100   | 66  | 92                   | 98   | 92   | 91    | 60 | 110              | 114  | 110  | 106   | 70  | 115              | 120  | 115  | 110   | 74  |
| 44.2 M95                      | kVA | 150                  | 150  | 145  | 125   | 94  | 135                  | 135  | 130  | 114   | 87 | 156              | 156  | 150  | 132   | 101 | 165              | 165  | 160  | 137   | 104 |
|                               | kW  | 120                  | 120  | 116  | 100   | 75  | 108                  | 108  | 104  | 91    | 70 | 125              | 125  | 120  | 106   | 81  | 132              | 132  | 128  | 110   | 83  |
| 44.2 L12                      | kVA | 165                  | 165  | 165  | 135   | 102 | 150                  | 150  | 150  | 123   | 94 | 170              | 170  | 170  | 143   | 109 | 175              | 175  | 175  | 148   | 113 |
|                               | kW  | 132                  | 132  | 132  | 110   | 82  | 120                  | 120  | 120  | 98    | 75 | 136              | 136  | 136  | 114   | 87  | 140              | 140  | 140  | 89    | 90  |

## Ratings 60 Hz - 1800 R.P.M.

| kVA / kW - Power factor = 0,8 |     |                      |      |      |       |       |                      |      |       |       |     |                  |       |       |      |     |                  |      |      |      |     |
|-------------------------------|-----|----------------------|------|------|-------|-------|----------------------|------|-------|-------|-----|------------------|-------|-------|------|-----|------------------|------|------|------|-----|
| Duty T° C                     |     | Continuous duty 40°C |      |      |       |       | Continuous duty 40°C |      |       |       |     | Stand-by / 40 °C |       |       |      |     | Stand-by / 27 °C |      |      |      |     |
| Class / T° K                  |     | H / 125° K           |      |      |       |       | F / 105° K           |      |       |       |     | H / 150° K       |       |       |      |     | H / 163° K       |      |      |      |     |
| Phase                         |     | 3 ph.                |      |      | 1 ph. | 3 ph. |                      |      | 1 ph. | 3 ph. |     |                  | 1 ph. | 3 ph. |      |     | 1 ph.            |      |      |      |     |
| Y                             |     | 380V                 | 416V | 440V | 480V  | ΔΔ    | 380V                 | 416V | 440V  | 480V  | ΔΔ  | 380V             | 416V  | 440V  | 480V | ΔΔ  | 380V             | 416V | 440V | 480V | ΔΔ  |
| Δ                             |     | 220V                 | 240V |      | 240V  |       | 220V                 | 240V |       | 240V  |     | 220V             | 240V  |       | 240V |     | 220V             | 240V |      | 240V |     |
| YY                            |     |                      | 208V | 220V | 240V  |       |                      | 208V | 220V  | 240V  |     |                  | 208V  | 220V  | 240V |     |                  | 208V | 220V | 240V |     |
| 44.2 VS3                      | kVA | 95                   | 100  | 105  | 115   | 65    | 85                   | 90   | 95    | 105   | 59  | 100              | 105   | 110   | 120  | 69  | 105              | 110  | 115  | 125  | 72  |
|                               | kW  | 76                   | 80   | 84   | 92    | 52    | 68                   | 72   | 76    | 84    | 47  | 80               | 84    | 88    | 96   | 55  | 84               | 88   | 92   | 100  | 58  |
| 44.2 VS45                     | kVA | 109                  | 117  | 123  | 131   | 74    | 101                  | 108  | 113   | 122   | 68  | 117              | 125   | 131   | 138  | 79  | 120              | 129  | 135  | 144  | 81  |
|                               | kW  | 87                   | 94   | 98   | 105   | 59    | 81                   | 86   | 90    | 98    | 54  | 94               | 100   | 105   | 110  | 63  | 96               | 103  | 108  | 115  | 65  |
| 44.2 S7                       | kVA | 126                  | 137  | 144  | 155   | 83    | 115                  | 123  | 130   | 140   | 77  | 133              | 143   | 151   | 163  | 89  | 139              | 151  | 158  | 170  | 92  |
|                               | kW  | 99                   | 106  | 111  | 120   | 66    | 92                   | 98   | 104   | 112   | 62  | 106              | 114   | 120   | 130  | 71  | 110              | 118  | 123  | 132  | 74  |
| 44.2 S75                      | kVA | 136                  | 146  | 155  | 169   | 95    | 122                  | 132  | 139   | 152   | 85  | 143              | 154   | 163   | 178  | 100 | 150              | 162  | 172  | 187  | 105 |
|                               | kW  | 109                  | 117  | 124  | 135   | 76    | 98                   | 106  | 111   | 122   | 68  | 114              | 123   | 130   | 142  | 80  | 120              | 130  | 138  | 150  | 84  |
| 44.2 M95                      | kVA | 156                  | 167  | 174  | 188   | 104   | 144                  | 154  | 160   | 167   | 96  | 167              | 179   | 186   | 196  | 110 | 173              | 185  | 194  | 206  | 115 |
|                               | kW  | 125                  | 134  | 139  | 150   | 83    | 115                  | 123  | 128   | 134   | 77  | 134              | 143   | 149   | 157  | 88  | 138              | 148  | 155  | 165  | 92  |
| 44.2 L12                      | kVA | 169                  | 180  | 190  | 206   | 110   | 155                  | 165  | 171   | 185   | 102 | 181              | 193   | 200   | 215  | 118 | 187              | 201  | 209  | 225  | 123 |
|                               | kW  | 135                  | 144  | 152  | 165   | 88    | 124                  | 132  | 137   | 148   | 82  | 145              | 154   | 160   | 172  | 94  | 150              | 161  | 167  | 180  | 98  |

## PLENUM

This type of enclosures has gained a well known reputation through its relatively medium size and good capabilities for noise reduction. It has a very unique inlet and outlet system and the front and rear attenuators makes it easily accessible for maintenance purposes.

### Charasteristics:

- > Body and components made of steel painted with highly corrosive synthetic gloss.
- > Stainless steel locks and hinges.
- > Easy access for the radiator and the control panel throgh the outlet and inlet attenuators.
- > Lube oil pipe can be reached externally to allow easy drainage.
- > Fuel fill and battery are secured throgh lockable doors.
- > Control panel viewing window in the inlet attenuator.
- > Lifting points on the top of the enclosure.
- > Exhaust silencing system in the interior of the enclosure.
- > Large doors for easy maintenance access. (two or four depending on the size).
- > Emergency stop push button mounted on the exterior of the enclosure (optional).



**GHADDAR**  
**MACHINERY Co. S.A.L.**



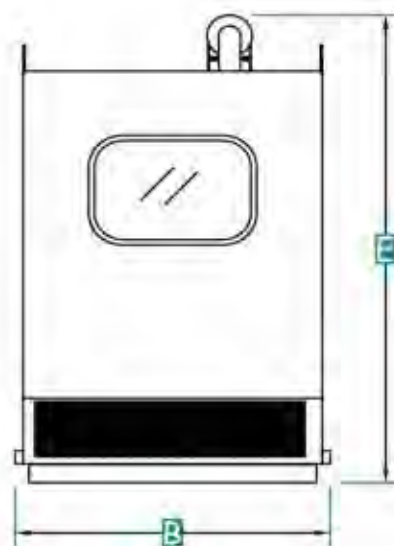
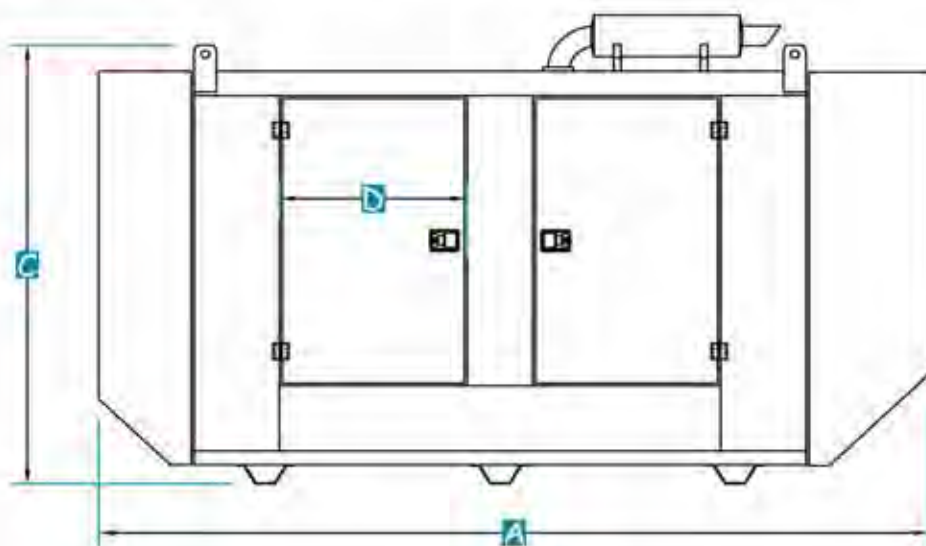
**Range**  
**9 - 250 KVA**



Certificate Numbers. CC1680-009512. 009912

## Sound Pressure Levels (dBA)

|                |           | 50 Hz |      |      |      |      |      | 60 Hz |      |      |      |      |      |
|----------------|-----------|-------|------|------|------|------|------|-------|------|------|------|------|------|
|                |           | 1 m   |      | 3 m  |      | 7 m  |      | 1 m   |      | 3 m  |      | 7 m  |      |
| Generating Set | Powertech | 0%    | 100% | 0%   | 100% | 0%   | 100% | 0%    | 100% | 0%   | 100% | 0%   | 100% |
| Engine model   | KVA       | Load  | Load | Load | Load | Load | Load | Load  | Load | Load | Load | Load | Load |
| 403C-11G       | 9         | 69.7  | 71   | 66.7 | 68   | 61.7 | 63   | 71.4  | 72.7 | 68.4 | 69.7 | 63.4 | 64.7 |
| 403C-15G       | 13        | 69.7  | 71   | 66.7 | 68   | 61.7 | 63   | 71.4  | 72.7 | 68.4 | 69.7 | 63.4 | 64.7 |
| 404C-22G       | 20        | 69.7  | 71   | 66.7 | 68   | 61.7 | 63   | 71.4  | 72.7 | 68.4 | 69.7 | 63.4 | 64.7 |
| 1103A-33G      | 30        | 71.9  | 73.4 | 68.4 | 69.9 | 63.4 | 64.9 | 73.8  | 75.3 | 70.3 | 71.8 | 65.3 | 66.8 |
| 1103A-33TG1    | 45        | 70.5  | 72   | 67   | 68.5 | 62   | 63.5 | 72.4  | 73.9 | 68.9 | 70.4 | 63.9 | 65.4 |
| 1103A-33TG2    | 60        | 70.5  | 72   | 67   | 68.5 | 62   | 63.5 | 72.4  | 73.9 | 68.9 | 70.4 | 63.9 | 65.4 |
| 1104A-44TG1    | 65        | 70.5  | 72   | 67   | 68.5 | 62   | 63.5 | 72.4  | 73.9 | 68.9 | 70.4 | 63.9 | 65.4 |
| 1104A-44TG2    | 80        | 71.7  | 73.2 | 68.2 | 69.7 | 63.2 | 64.4 | 73.5  | 75   | 70   | 71.5 | 65   | 66.2 |
| 1006TG1A       | 95        | 73.5  | 75   | 70   | 71.5 | 65   | 66.2 | 76    | 77.5 | 72.5 | 74   | 67.5 | 68.7 |
| 1104C-44TAG2   | 100       | 73.5  | 75   | 70   | 71.5 | 65   | 66.2 | 76    | 77.5 | 72.5 | 74   | 67.5 | 68.7 |
| 1006TG2        | 105       | 73.5  | 75   | 70   | 71.5 | 65   | 66.2 | 76    | 77.5 | 72.5 | 74   | 67.5 | 68.7 |
| 1006TAG1       | 135       | 74.7  | 76.2 | 71.2 | 72.7 | 66.2 | 67.4 | 77.2  | 78.7 | 73.7 | 75.2 | 68.7 | 69.9 |
| 1006TAG2       | 150       | 74.7  | 76.2 | 71.2 | 72.7 | 66.2 | 67.4 | 77.2  | 78.7 | 73.7 | 75.2 | 68.7 | 69.9 |
| 1306C-E87TAG3  | 200       | 76.9  | 79.6 | 73.4 | 75.5 | 68.4 | 70.8 | 79.8  | 82.5 | 76.3 | 78.4 | 71.3 | 73.7 |
| 1306C-E87TAG6  | 250       | 76.9  | 79.6 | 73.4 | 75.5 | 68.4 | 70.8 | 79.8  | 82.5 | 76.3 | 78.4 | 71.3 | 73.7 |



## Dimensions

| Generating Set | Powertech | A: mm | B: mm | C: mm | D: mm | E: mm |
|----------------|-----------|-------|-------|-------|-------|-------|
| Engine model   | KVA       |       |       |       |       |       |
| 403C-11G       | 9         | 2230  | 1100  | 1450  | 834   |       |
| 403C-15G       | 13        | 2230  | 1100  | 1450  | 834   |       |
| 404C-22G       | 20        | 2230  | 1100  | 1450  | 834   |       |
| 1103A-33G      | 30        | 2630  | 1150  | 1660  | 985   |       |
| 1103A-33TG1    | 45        | 2630  | 1150  | 1660  | 985   |       |
| 1103A-33TG2    | 60        | 2630  | 1150  | 1660  | 985   |       |
| 1104A-44TG1    | 65        | 2630  | 1150  | 1660  | 985   |       |
| 1104A-44TG2    | 80        | 2920  | 1150  | 1660  | 640   |       |
| 1006TG1A       | 95        | 3620  | 1260  | 1860  | 872   |       |
| 1104C-44TAG2   | 100       | 3620  | 1260  | 1860  | 872   |       |
| 1006TG2        | 105       | 3620  | 1260  | 1860  | 872   |       |
| 1006TAG1       | 135       | 3620  | 1260  | 1860  | 872   |       |
| 1006TAG2       | 150       | 3620  | 1260  | 1860  | 872   |       |
| 1306C-E87TAG3  | 200       | 4360  | 1650  | 2160  | 860   | 2480  |
| 1306C-E87TAG6  | 250       | 4360  | 1650  | 2160  | 860   | 2480  |