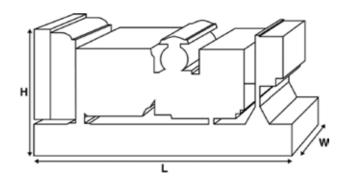


#### Standard Alternator

| Output Ratings     |       |         |  |
|--------------------|-------|---------|--|
| Voltage, Frequency | Prime | Standby |  |
| kVA                | 1010  | 1110    |  |
| kW                 | 808   | 888     |  |
| kVA                |       |         |  |
| kW                 |       |         |  |

Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



| -            |               | Ale I |
|--------------|---------------|-------|
| e erkins     |               |       |
| Diesel Power |               |       |
| LEROY-SOMER  |               |       |
|              | <u>, 0, 1</u> |       |
|              | 0             | -     |

| Dimension    | s and Weights |              |
|--------------|---------------|--------------|
| Length       | mm            | 4788 (188.5) |
| Width        | mm            | 2046 (80.6)  |
| Height       | mm            | 2419 (95.2)  |
| Weight (Dry) | kg            | 7111 (15677) |
| Weight (Wet) | kg            | 7224 (15926) |

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22. Generator set pictured may include optional accessories.

#### **Prime Rating**

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

#F(

#### Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

#### Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

PEGC Power Solutions offer a range of optional features to allow you to tailor our generator sets to meet your power needs.Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator set control and synchronising panels
- Additional alarms and shutdowns
- · A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit:

#### www.pegcpowersolutions.com



| <b>Ratings and Perform</b> | ance Data          |                              |            |
|----------------------------|--------------------|------------------------------|------------|
| Engine Make                |                    | Perkins                      |            |
| Engine Model:              |                    | 4008TAG2A                    |            |
| Alternator Make            |                    |                              |            |
| Alternator Model:          |                    | 70050                        |            |
| Control Panel:             |                    | E7410                        |            |
| Base Frame:                |                    | Heavy Duty Fabricated Steel  |            |
| Circuit Breaker Type:      |                    | Options Available            |            |
| Frequency:                 |                    | 50 HZ                        | 60 HZ      |
| Engine Speed: RPM          | rpm                | 1500                         |            |
| Fuel Tank Capacity:        | litres (US gal)    | N/A (N/A)                    |            |
| Fuel Consumption Prime     | litres (US gal)/hr | 214 (56.5)                   |            |
| Fuel Consumption Standby   | litres (US gal)/hr | 240 (63.4)                   |            |
| Engine Technical Dat       | a                  |                              |            |
| No. of Cylinders           |                    | 8                            |            |
| Alignment                  |                    | IN LINE                      |            |
| Cycle                      |                    | 4 STROKE                     |            |
| Bore mr                    | n (in)             | 160 (6.3)                    |            |
|                            | n (in)             | 190 (7.5)                    |            |
| Induction                  |                    | TURBOCHARGED AIR TO AIR CHAR | RGE COOLED |
| Cooling Method             |                    | WATER                        |            |
| Governing Type             |                    | ELECTRONIC                   |            |
| Governing Class            |                    | ISO 8528                     |            |
| Compression Ratio          |                    | 13.6:1                       |            |
| Displacement L (           | cu. in)            | 30.6 (1864.9)                |            |
| Moment of Inertia: kg      | m² (lb/in²)        | 15.62 (53376)                |            |
| Voltage                    |                    | 24                           |            |
| Ground                     |                    | Negative                     |            |
| Battery Charger Amps       |                    | 40                           |            |
| Engine Weight Dry kg       | (lb)               | 3250 (7165)                  |            |
| Engine Weight Wet kg       | (lb)               | 3428 (7557)                  |            |
| Engine Performance         | Data               | 50 Hz                        | 60 Hz      |
| Engine Speed               | rpm                | 1500                         |            |
| Gross Engine Power Prime   | kW (hp)            | 899 (1206)                   |            |
| Gross Engine Power Standby | kW (hp)            | 985 (1321)                   |            |
| BMEP Prime                 | kPa (psi)          | 2353 (341.3)                 |            |
|                            |                    | 2579 (374)                   |            |



| Fuel System         |                  |            |                  |              |              |
|---------------------|------------------|------------|------------------|--------------|--------------|
| Fuel Filter Type:   |                  |            | Replaceable Eler | ment         |              |
| Recommended Fuel:   |                  |            | Class A2 Diesel  |              |              |
| Fuel Consumption at |                  | 110 % Load | 100 % Load       | 75 % Load    | 50 % Load    |
| 50 Hz Prime:        | l/hr (US gal/hr) | 240 (63.4) | 214 (56.5)       | 156.5 (41.3) | 108.9 (28.8) |
| 50 Hz Standby       | l/hr (US gal/hr) | -          | 240 (63.4)       | 172.7 (45.6) | 117.6 (31.1) |
| 60 Hz Prime         | l/hr (US gal/hr) |            |                  |              |              |
| 60 Hz Standby       | l/hr (US gal/hr) | -          |                  |              |              |

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, class A2  $\,$ 

| Air System  |   | 50 Hz                          | 60 Hz   |  |
|---|---|--------------------------------|---|--|
| Air Filter Type:  |   |                                | Replaceable Element                                 |  |
| Combustion Air Flow Prime   | m³/min (cfm)  | 75 (2649)                      |   |  |
| Combustion Air Flow Standby   | m³/min (cfm)  | 80.5 (2843)                    |   |  |
| Max. Combustion Air Intake Restriction  | n kPa   | 3.7 (14.9)                     |   |  |
| Cooling System  |   | 50 Hz                          | 60 Hz   |  |
| Cooling System Capacity   | l (US gal)  | 123 (32.5)                     |   |  |
| Water Pump Type:  |   |                                | Centrifugal   |  |
| Heat Rejected to Water & Lube Oil: Pri  | ime kW (Btu/min)  | 332 (18881)                    |   |  |
| Heat Rejected to Water & Lube Oil: St   | andby kW (Btu/min)  | 349 (19847)                    |   |  |
| Heat Radiation to Room*: Prime  | kW (Btu/min)  | 122.3 (6955)                   |   |  |
| Heat Radiation to Room*: Standby  | kW (Btu/min)  | 146.4 (8326)                   |   |  |
| Radiator Fan Load:  | kW (hp)   | 27 (36.2)                      |   |  |
| Radiator Cooling Airflow:   | m <sup>3</sup> /min (cfm)   | 870 (30724)                    |   |  |
| External Restriction to Cooling Airflow   | v: Pa (in H2O)  | 250 (1)                        |   |  |
| -   |   | ~ /                            |   |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.  | up to 50°C (122°F).   |                                |   |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De   | up to 50°C (122°F).   |                                |   |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.  | up to 50°C (122°F).   |                                | Spin-On, Full Flow                                  |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.  | up to 50°C (122°F).   |                                | Spin-On, Full Flow<br>166 (43.9)                    |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:   | up to 50°C (122°F).   |                                | -   |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)   | up to 50°C (122°F).   |                                | 166 (43.9)  |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)   | up to 50°C (122°F).   |                                | 166 (43.9)<br>153 (40.4)                            |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)<br>Oil Type:  | up to 50°C (122°F).   |                                | 166 (43.9)<br>153 (40.4)<br>API CG4 15W-40          |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)<br>Oil Type:<br>Oil Cooling Method:   | up to 50°C (122°F).   | site                           | 166 (43.9)<br>153 (40.4)<br>API CG4 15W-40<br>WATER |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)<br>Oil Type:<br>Oil Cooling Method:<br><b>Exhaust System</b>  | or<br>up to 50°C (122°F).<br>ealer for power ratings at specific  | 50 Hz                          | 166 (43.9)<br>153 (40.4)<br>API CG4 15W-40<br>WATER |  |
| *: Heat radiated from engine and alternato<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions De<br>conditions.<br>Lubrication System<br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)<br>Oil Type:<br>Oil Cooling Method:<br>Exhaust System<br>Maximum Allowable Back Pressure:  | r<br>up to 50°C (122°F).<br>ealer for power ratings at specific<br>specific<br>kPa (in Hg)                  | 50 Hz<br>8 (2.4)               | 166 (43.9)<br>153 (40.4)<br>API CG4 15W-40<br>WATER |  |
| *: Heat radiated from engine and alternation<br>Designed to operate in ambient conditions<br>Contact your local PEGC Power Solutions Deconditions.<br><b>Lubrication System</b><br>Oil Filter Type:<br>Total Oil Capacity: l (US gal)<br>Oil Pan Capacity: l (US gal)<br>Oil Type:<br>Oil Cooling Method:<br><b>Exhaust System</b><br>Maximum Allowable Back Pressure:<br>Exhaust Gas Flow: Prime | r<br>up to 50°C (122°F).<br>ealer for power ratings at specific<br>kPa (in Hg)<br>m <sup>3</sup> /min (cfm) | 50 Hz<br>8 (2.4)<br>200 (7063) | 166 (43.9)<br>153 (40.4)<br>API CG4 15W-40<br>WATER |  |



| Data           |   |   |  |  |   |
|----------------|---|---|--|--|---|
|                |   |   |  | 1  |   |
|                |   |   |  | Н  |   |
|                |   |   |  | 2/3  |   |
|                |   |   |  | 6S   |   |
|                |   |   |  | 6  |   |
|                |   |   |  | IP23   |   |
|                |   |   |  | SHUNT  |   |
|                |   |   |  | R150   |   |
|                |   |   |  |  |   |
| g Data         |   |   |  |  |   |
|                |   |   |  | 2250   |   |
| tate)          | %   |   |  | +/- 0.8  |   |
|                |   |   |  | 50   |   |
|                | %   |   |  | 2  |   |
| N:             | %   |   |  | 3.5  |   |
|                |   |   |  | EN61000-6  |   |
|                | kW (Btu/min)  |   |  | 46.4 (2639)  |   |
|                | kW (Btu/min)  |   |  |  |   |
|                |   | 415/240 V   | 400/230 V  | 380/220 V  |   |
| kVA            |   | 1575  | 1473   | 1342   |   |
| %              |   | 270   | 270  | 270  | 270   |
| Xd             |   | 3.24  | 3.48   | 3.86   |   |
| X'd            |   | 0.15  | 0.162  | 0.179  |   |
| X"d            |   | 0.129   | 0.129  | 0.143  |   |
| nce Da         | ita 60 Hz   |   |  |  |   |
|                |   |   |  |  |   |
| kVA            |   |   |  |  |   |
| NTA            | 270   | 270   | 270  | 270  | 270   |
| %              |   |   |  |  |   |
| %<br>Xd        | 270   |   |  |  |   |
| %<br>Xd<br>X'd | 270   |   |  |  |   |
|                | g Data<br>tate)<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N:<br>N: | g Data<br>tate) %<br>%<br>N: %<br>KW (Btu/min)<br>kW (Btu/min)<br>kW (Btu/min)<br>mce Data 50 Hz: | g Data<br>tate) %<br>%<br>N: %<br>KW (Btu/min)<br>kW (Btu/min)<br>kW (Btu/min)<br>mce Data 50 Hz:<br>A15/240 V<br>kVA 1575<br>% 270<br>Xd 1575<br>% 270<br>Xd 3.24<br>X'd 0.15<br>X"d 0.15 | g Data<br>tate) %<br>%<br>%<br>%<br>%<br>kW (Btu/min)<br>kW (Btu/min)<br>kW (Btu/min)<br>mce Data 50 Hz:<br>415/240 V 400/230 V<br>kVA 1575 1473<br>% 270 270<br>Xd 3.24 3.48<br>X'd 0.15 0.162<br>X"d 0.129 0.129 | 1 H   2/3 65   65 6   1P23 SHUNT   R150 SHUNT   xtate) % 1   % 2   % 2   % 2   % 2   N: %   KW (Btu/min) 46.4 (2639)   kW (Btu/min) 46.4 (2639)   kW (Btu/min) 415/240 V 400/230 V 380/220 V   kVA 1575 1473 1342   % 270 270 270   xd 3.24 3.48 3.86   x'd 0.15 0.162 0.179   x''d 0.129 0.129 0.143 |

\*\* With optional independant excitation system (PMG / AUX winding)



| Output Ratings 50 Hz |       |     |      |         |  |
|----------------------|-------|-----|------|---------|--|
|                      | Prime |     | S    | itandby |  |
| Voltage Code         | kVA   | kW  | kVA  | kW      |  |
| 415/240V             | 1010  | 808 | 1110 | 888     |  |
| 400/230V             | 1010  | 808 | 1110 | 888     |  |
| 380/220V             | 1010  | 808 | 1110 | 888     |  |
| 230/115V             |       |     |      |         |  |
| 220/127V             |       |     |      |         |  |
| 220/110V             |       |     |      |         |  |
| 200/115V             |       |     |      |         |  |
| 240V                 |       |     |      |         |  |
| 230V                 |       |     |      |         |  |
| 220V                 |       |     |      |         |  |

### Output Ratings 60 Hz

|              |     | Prime |     | Standby |  |
|--------------|-----|-------|-----|---------|--|
| Voltage Code | kVA | kW    | kVA | kW      |  |
| 480/277V     |     |       |     |         |  |
| 440/254V     |     |       |     |         |  |
| 416/240V     |     |       |     |         |  |
| 400/230V     |     |       |     |         |  |
| 380/220V     |     |       |     |         |  |
| 240/139V     |     |       |     |         |  |
| 240/120V     |     |       |     |         |  |
| 230/115V     |     |       |     |         |  |
| 220/127V     |     |       |     |         |  |
| 220/110V     |     |       |     |         |  |
| 208/120V     |     |       |     |         |  |
| 240/120      |     |       |     |         |  |
| 220/110      |     |       |     |         |  |





### **Dealer Contact Details**

### **Documentation**

Operation and maintenance manual including circuit wiring diagrams.

### **Generator Set Standards**

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

### Warranty

6.8 - 750 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760). For standby applications the warranty period is 24 months from date of start-up, limited to 500 hours per year.

730 - 2500 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760 hours) or 24 months from date of start-up, limited to 6000 hours. For standby applications the warranty period is 36 months from date of start-up, limited to 500 hours per year.

PEGC Power Solutions manufactures product in the following locations:

Lahore Karachi Islamabad Multan With headquarters in Lahore, PEGC Power Solutions operates through a Global Dealer Network. To contact your local Sales Office please visit the PEGC Power Solutions website at www.pegcpowersolutions.com.

PEGC Power Solutions is a trading name of Public Electric Generator Concern (PEGC Power Solutions & Engineering Services (Pvt) Ltd.).

In line with our policy of continuous product development, we reserve the right to change specification without notice.