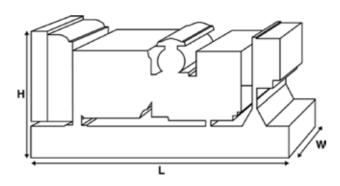


Output Ratings

| Voltage, Frequency | | Prime | Standby |
|--------------------|-----|-------|---------|
| | kVA | 36 | 40 |
| | kW | 36 | 40 |
| | kVA | | |
| | kW | | |

Ratings at 1 power factor.

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





| Dimensions and Weights | | | | | | |
|------------------------|----|-------------|--|--|--|--|
| Length | mm | 1680 (66.1) | | | | |
| Width | mm | 760 (29.9) | | | | |
| Height | mm | 1330 (52.4) | | | | |
| Weight (Dry) | kg | 767 (1691) | | | | |
| Weight (Wet) | kg | 779 (1717) | | | | |

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.

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



| Ratings and Perform | ance Data | | |
|----------------------------|--------------------|---------------------------|-------|
| Engine Make | | Perkins | |
| Engine Model: | | 1103A-33TG1 | |
| Alternator Make | | | |
| Alternator Model: | | 20080-M | |
| Control Panel: | | 100 | |
| Base Frame: | | Heavy Duty Fabricated Ste | el |
| Circuit Breaker Type: | | 3 Pole MCCB | |
| Frequency: | | 50 HZ | 60 HZ |
| Engine Speed: RPM | rpm | 1500 | |
| Fuel Tank Capacity: | litres (US gal) | 145 (38.3) | |
| Fuel Consumption Prime | litres (US gal)/hr | 10.2 (2.7) | |
| Fuel Consumption Standby | litres (US gal)/hr | 11.4 (3) | |
| Engine Technical Dat | а | | |
| No. of Cylinders | | 3 | |
| Alignment | | IN LINE | |
| Cycle | | 4 STROKE | |
| | n (in) | 105 (4.1) | |
| | m (in) | 127 (5) | |
| Induction | | TURBOCHARGED | |
| Cooling Method | | WATER | |
| Governing Type | | MECHANICAL | |
| Governing Class | | ISO 8528 G2 | |
| Compression Ratio | | 17.25:1 | |
| Displacement L (| cu. in) | 3.3 (201.4) | |
| Moment of Inertia: kg | m² (lb/in²) | 1.14 (3896) | |
| Voltage | | 12 | |
| Ground | | Negative | |
| Battery Charger Amps | | 65 | |
| Engine Weight Dry kg | (lb) | 341 (752) | |
| Engine Weight Wet kg | (lb) | 348 (767) | |
| Engine Performance | Data | 50 Hz | 60 Hz |
| Engine Speed | rpm | 1500 | |
| Gross Engine Power Prime | kW (hp) | 42.2 (57) | |
| Gross Engine Power Standby | kW (hp) | 46.5 (62) | |
| BMEP Prime | kPa (psi) | 1023 (148.4) | |
| BMEP Standby | kPa (psi) | 11128 (163.5) | |



| Fuel System | | | | | | |
|---|--|---------------------------|------------------|----------------|--------------------|-----------|
| Fuel Filter Type: | | | | Replaceable E | lement | |
| Recommended Fuel: | | | | Class A2 Diese | el | |
| Fuel Consumption at | | | 110 % Load | 100 % Load | 75 % Load | 50 % Load |
| 50 Hz Prime: | l/hr (US gal/ | hr) | 11.4 (3) | 10.2 (2.7) | 7.7 (2) | 5.5 (1.5) |
| 50 Hz Standby | l/hr (US gal/ | hr) | • | 11.4 (3) | 8.5 (2.2) | 6 (1.6) |
| 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 | 0.84 and conforming | to BS2869 classA | 2,EN590 | | |
| Air System | | | 5 | io Hz | 60 Hz | |
| Air Filter Type: | | | | | Replaceable Elemer | t |
| Combustion Air Flow Prin | me | m ³ /min (cfm) | 2 | .8 (99) | | |
| Combustion Air Flow Sta | ndby | m ³ /min (cfm) | 2 | .8 (99) | | |
| Max. Combustion Air Inta | ke Restriction | kPa | 6 | .6 (26.5) | | |
| Cooling System | | | 5 | i0 Hz | 60 Hz | |
| Cooling System Capacity | , | l (US gal) | | 2.8 (3.4) | | |
| Water Pump Type: | | | | | Centrifugal | |
| Heat Rejected to Water & | : Lube Oil: Prime | kW (Btu/min) | 2 | 4.6 (1399) | | |
| Heat Rejected to Water 8 | t Lube Oil: Stand | by kW (Btu/min) | 2 | 7.4 (1558) | | |
| Heat Radiation to Room*: | : Prime | kW (Btu/min) | 1 | 1.5 (654) | | |
| Heat Radiation to Room* | : Standby | kW (Btu/min) | 1 | 2.9 (734) | | |
| Radiator Fan Load: | | kW (hp) | 0 | .5 (0.7) | | |
| Radiator Cooling Airflow | : | m³/min (cfm) | 7 | 4.4 (2627) | | |
| External Restriction to Co | oling Airflow: | Pa (in H2O) | 1 | 20 (0.5) | | |
| *: Heat radiated from engine Designed to operate in ambi Contact your local Pegc pow conditions. | ent conditions up er solutions Dealer | | specific site | | | |
| Oil Filter Type: | ;111 | | | | Spin-On, Full Flow | |
| Total Oil Capacity: | l (US gal) | | | | 8.3 (2.2) | |
| Oil Pan Capacity: | l (US gal) | | | | 7.8 (2.1) | |
| Oil Type: | (5**) | | | | API CG4 / CH4 15V | /-40 |
| Oil Cooling Method: | | | | | WATER | |
| Exhaust System | | | 5 | i0 Hz | 60 Hz | |
| Maximum Allowable Back | Pressure: k | Pa (in Hg) | | 2 (3.5) | | |
| Exhaust Gas Flow: Prime | | 1 ³ /min (cfm) | | .9 (244) | | |
| Exhaust Gas Flow: Stand | | 1 ³ /min (cfm) | | .7 (272) | | |
| Exhaust Gas Temperature | | C (°F) | | 20 (968) | | |
| | | · / | | | | |



| Data | | | | | | |
|---|---|--|--|--|--|--|
| | | | | 1 | | |
| No. of Bearings: Insulation Class: Winding Pitch: | | | | Н | | |
| | | | | 2/3 | | |
| | | | | Μ | | |
| | | | | 3 | | |
| | | | | IP23 | | |
| | | SHUNT | | | | |
| | | R121 | | | | |
| ł | | | | | | |
| g Data | | | | | | |
| | | | | 2250 | | |
| state) | % | | | +/- 1.0 | | |
| | | | | 100 | | |
| | % | | | 2 | | |
| N: | % | % | | | 3.5 | |
| | | | | EN61000-6 | | |
| | kW (Btu/min) | kW (Btu/min) 3.9 (222) | | | | |
| | kW (Btu/min) | | | | | |
| ance Da | ta 50 Hz: | | | | | |
| | | 240 V | 230 V | 220 V | | |
| | | | | | | |
| | | 00 | QE | 01 | | |
| | | | | | 270 | |
| | | | | | 270 | |
| | | | | | | |
| | | | | | | |
| X d | | 0.008 | 0.088 | 0.097 | | |
| ance Da | ta 60 Hz | | | | | |
| | | | | | | |
| kVA | | 0 | 0 | 0 | | |
| | 270 | 270 | 270 | 270 | 270 | |
| % | 270 | 270 | 270 | | | |
| % Xd | 270 | 0 | 0 | 0 | | |
| | 270 | | | | | |
| | state) N: N: Ance Da kVA % Xd X'd X'd X'd X'd | d g Data state) % % N: % KW (Btu/min) kW (Btu/min) kW (Btu/min) model to the state of th | d In g Data state) % % N: % KW (Btu/min) KW (Btu/min) KW (Btu/min) Ance Data 50 Hz: 240 √ KVA 88 % 270 Xd 1.614 X'd 0.163 X''d 0.163 X''d 0.088 | d g Data state) % % N: % kW (Btu/min) kW (Btu/min) ance Data 50 Hz: 240 V 230 V kVA 88 85 % 270 230 V kVA 88 85 % 270 270 Xd 1.614 1.757 X'd 0.163 0.177 X'd 0.163 0.177 X'd 0.088 0.088 | 1 H 2/3 M 3 IP23 SHUNT R121 d 100 \$\$ state) % 100 2250 \$\$ state) % 100 2220 \$\$ with (Btu/min) 3.5 EN61000-6 kW (Btu/min) \$\$ state 240 V 240 V 230 V 220 V kW (Btu/min) \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 270 \$\$ 270 | |

*Based on 30% voltage dip at 0.9 power factor.

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



| Output Ratings 50 Hz | | | | | |
|----------------------|-----|-------|-----|---------|--|
| | | Prime | | Standby | |
| Voltage Code | kVA | kW | kVA | kW | |
| 415/240V | | | | | |
| 400/230V | | | | | |
| 380/220V | | | | | |
| 230/115V | | | | | |
| 220/127V | | | | | |
| 220/110V | | | | | |
| 200/115V | | | | | |
| 240V | 36 | 36 | 40 | 40 | |
| 230V | 36 | 36 | 40 | 40 | |
| 220V | 36 | 36 | 40 | 40 | |

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.