

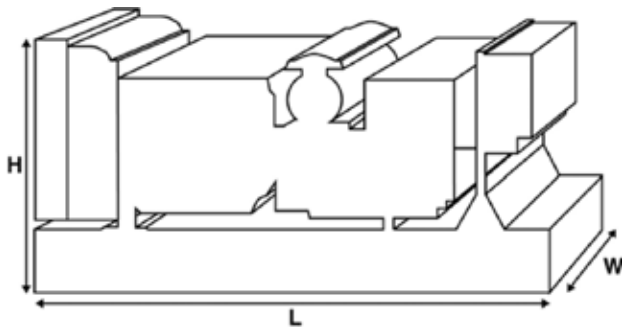
P40-4S_50Hz

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	758 (1671)
Weight (Wet)	kg	771 (1700)

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

P40-4S_50Hz



Ratings and Performance Data

Engine Make		
Engine Model:		1103C-33TG3
Alternator Make		
Alternator Model:		20080-M
Control Panel:		100
Base Frame:		Heavy Duty Fabricated Steel
Circuit Breaker Type:		3 Pole MCCB
Frequency:		50 HZ 60 HZ
Engine Speed: RPM	rpm	
Fuel Tank Capacity:	litres (US gal)	145 (38.3)
Fuel Consumption Prime	litres (US gal)/hr	10.4 (2.7)
Fuel Consumption Standby	litres (US gal)/hr	11.6 (3.1)

Engine Technical Data

No. of Cylinders		
Alignment		
Cycle		
Bore	mm (in)	
Stroke	mm (in)	
Induction		
Cooling Method		
Governing Type		
Governing Class		
Compression Ratio		
Displacement	L (cu. in)	
Moment of Inertia:	kg m ² (lb/in ²)	
Voltage		
Ground		
Battery Charger Amps		
Engine Weight Dry	kg (lb)	
Engine Weight Wet	kg (lb)	

Engine Performance Data

50 Hz

60 Hz

Engine Speed	rpm	
Gross Engine Power Prime	kW (hp)	
Gross Engine Power Standby	kW (hp)	
BMEP Prime	kPa (psi)	
BMEP Standby	kPa (psi)	

P40-4S_50Hz



Fuel System

Fuel Filter Type:

Recommended Fuel:

Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	11.6 (3.1)	10.4 (2.7)	7.9 (2.1)	5.6 (1.5)
50 Hz Standby	l/hr (US gal/hr)	-	11.6 (3.1)	8.7 (2.3)	6.1 (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 and conforming to

Air System

50 Hz

60 Hz

Air Filter Type:

Combustion Air Flow Prime	m ³ /min (cfm)	2.8 (99)
Combustion Air Flow Standby	m ³ /min (cfm)	2.8 (99)
Max. Combustion Air Intake Restriction	kPa	6.6 (26.5)

Cooling System

50 Hz

60 Hz

Cooling System Capacity	l (US gal)	12.8 (3.4)
Water Pump Type:		Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	24.6 (1399)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	27.4 (1558)
Heat Radiation to Room*: Prime	kW (Btu/min)	11.5 (654)
Heat Radiation to Room*: Standby	kW (Btu/min)	12.9 (734)
Radiator Fan Load:	kW (hp)	0.5 (0.7)
Radiator Cooling Airflow:	m ³ /min (cfm)	74.4 (2627)
External Restriction to Cooling Airflow:	Pa (in H ₂ O)	120 (0.5)

*: Heat radiated from engine and alternator
 Designed to operate in ambient conditions up to 50°C (122°F).
 Contact your local Pegc power solutions Dealer for power ratings at specific site conditions.

Lubrication System

Oil Filter Type:

Total Oil Capacity: l (US gal)

Oil Pan Capacity: l (US gal)

Oil Type:

Oil Cooling Method:

Exhaust System

50 Hz

60 Hz

Maximum Allowable Back Pressure:	kPa (in Hg)	12 (3.5)
Exhaust Gas Flow: Prime	m ³ /min (cfm)	6.9 (244)
Exhaust Gas Flow: Standby	m ³ /min (cfm)	7.7 (272)
Exhaust Gas Temperature: Prime	°C (°F)	520 (968)
Exhaust Gas Temperature: Standby	°C (°F)	580 (1076)

P40-4S_50Hz



Alternator Physical Data

No. of Bearings:	1
Insulation Class:	H
Winding Pitch:	2/3
Winding Code	M
Wires:	3
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R121

* dependant on voltage code selected

Alternator Operating Data

Overspeed: rpm	2250
Voltage Regulation: (Steady state) %	+/- 1.0
Wave Form NEMA = TIF:	100
Wave Form IEC = THF: %	2
Total Harmonic content LL/LN: %	3.5
Radio Interference:	EN61000-6
Radiant Heat: 50 Hz kW (Btu/min)	3.9 (222)
Radiant Heat: 60 Hz kW (Btu/min)	

Alternator Performance Data 50 Hz:

		240 V	230 V	220 V	
Voltage Code					
Motor Starting Capability*	kVA	88	85	81	
Short Circuit Capacity**	%	270	270	270	270
Reactances	Xd	1.614	1.757	1.92	
	X'd	0.163	0.177	0.193	
	X''d	0.088	0.088	0.097	

Alternator Performance Data 60 Hz

		240 V	230 V	220 V	
Voltage Code					
Motor Starting Capability*	kVA	0	0	0	
Short Circuit Capacity**	%	270	270	270	270
Reactances	Xd	0	0	0	
	X'd	0	0	0	
	X''d	0	0	0	

Reactances shown are applicable to prime ratings.

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

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

P40-4S_50Hz



Output Ratings 50 Hz

Voltage Code	Prime		Standby	
	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

Voltage Code	Prime		Standby	
	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				

#



P40-4S_50Hz

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.