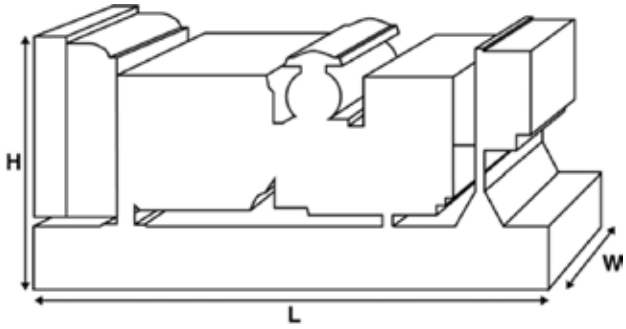
P9.5-4 (Skid)

Output Ratings

Voltage, Frequency	Prime	Standby
kVA	8.5	9.5
kW	6.8	7.6
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	1550 (61)
Width	mm	620 (24.4)
Height	mm	1020 (40.2)
Weight (Dry)	kg	233 (514)
Weight (Wet)	kg	238 (525)

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 peaking 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 synchronizing 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:

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Ratings and Performance Data

Engine Make		Perkins	
Engine Model:		403A-11G1	
Alternator Make			
Alternator Model:		10030	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)		
Fuel Consumption Prime	litres (US gal)/hr	2.5 (0.7)	
Fuel Consumption Standby	litres (US gal)/hr	2.8 (0.7)	

Engine Technical Data

No. of Cylinders		3
Alignment		IN LINE
Cycle		4 STROKE
Bore	mm (in)	77 (3)
Stroke	mm (in)	81 (3.2)
Induction		NATURALLY ASPIRATED
Cooling Method		WATER
Governing Type		MECHANICAL
Governing Class		ISO 8528
Compression Ratio		23:1
Displacement	L (cu. in)	1.1 (69)
Moment of Inertia:	kg m^2 (lb/in^2)	1.63 (5570)
Voltage		12
Ground		Negative
Battery Charger Amps		15
Engine Weight Dry	kg (lb)	129 (284)
Engine Weight Wet	kg (lb)	139 (306)

Engine Performance Data		50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	8.6 (12)	
Gross Engine Power Standby	kW (hp)	9.5 (13)	
BMEP Prime	kPa (psi)	610 (88.5)	
BMEP Standby	kPa (psi)	672 (97.4)	

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Fuel System

Fuel Filter Type:			Replaceable Element		
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	2.8 (0.7)	2.5 (0.7)	1.9 (0.5)	1.5 (0.4)
50 Hz Standby	l/hr (US gal/hr)	-	2.8 (0.7)	2.1 (0.6)	1.6 (0.4)
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, class A2

Air System

		50 Hz	60 Hz
Air Filter Type:			Replaceable Element
Combustion Air Flow Prime	m^3/min (cfm)	0.7 (25)	
Combustion Air Flow Standby	m^3/min (cfm)	0.7 (25)	
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)	

Cooling System

		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	5.2 (1.4)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	8.3 (472)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	9.5 (540)	
Heat Radiation to Room*: Prime	kW (Btu/min)	2.9 (165)	
Heat Radiation to Room*: Standby	kW (Btu/min)	3.9 (222)	
Radiator Fan Load:	kW (hp)	0.2 (0.3)	
Radiator Cooling Airflow:	m^3/min (cfm)	24 (848)	
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (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:		Spin-On, Full Flow
Total Oil Capacity:	l (US gal)	4.9 (1.3)
Oil Pan Capacity:	l (US gal)	4.4 (1.2)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		N/A

Exhaust System

		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10.2 (3)	
Exhaust Gas Flow: Prime	m^3/min (cfm)	1.7 (59)	
Exhaust Gas Flow: Standby	m^3/min (cfm)	1.8 (64)	
Exhaust Gas Temperature: Prime	°C (°F)	368 (694)	
Exhaust Gas Temperature: Standby	°C (°F)	420 (788)	

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Alternator Physical Data

No. of Bearings:	1
Insulation Class:	H
Winding Pitch:	2/3
Winding Code	6
Wires:	12
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)	%	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	3.5
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	1.5 (85)
Radiant Heat: 60 Hz	kW (Btu/min)	

Alternator Performance Data 50 Hz:

			415/240 V	400/230 V	380/220 V	
Voltage Code						
Motor Starting Capability*	kVA		18	17	16	21
Short Circuit Capacity**	%		0	0	0	0
Reactances	Xd		1.323	1.424	1.578	
	X'd		0.21	0.23	0.25	
	X"d		0.073	0.073	0.081	

Alternator Performance Data 60 Hz

Voltage Code						
Motor Starting Capability*	kVA		0	0	0	18
Short Circuit Capacity**	%	0	0	0	0	0
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)

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Output Ratings 50 Hz

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
415/240V	8.5	6.8	9.5	7.6
400/230V	8.5	6.8	9.5	7.6
380/220V	8.5	6.8	9.5	7.6
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				

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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.).