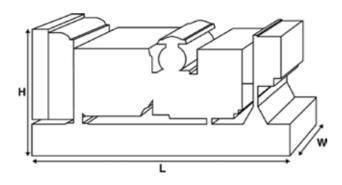


Output Ratings

Voltage, Frequency		Prime	Standby
	kVA	50	55
	kW	40	44
	kVA		
	kW		

Ratings at 0.8 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	756 (1667)				
Weight (Wet)	kg	769 (1695)				

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 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

BMEP Standby

kPa (psi)



1406 (209)

Ratings and Per	formance Data			
Engine Make		Perkins		
Engine Model:		1103A-33TG2		
Alternator Make				
Alternator Model:		20070		
Control Panel:		100		
Base Frame:		Heavy Duty Fabricated Steel		
Circuit Breaker Type:		3 Pole MCB/MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm	1500	1800	
Fuel Tank Capacity:	litres (US gal)	145 (38.3)		
Fuel Consumption Prin		11.6 (3.1)		
Fuel Consumption Sta		12.8 (3.4)		
·				
Engine Technica	l Data			
No. of Cylinders		3		
Alignment		IN LINE		
Cycle		4 STROKE		
Bore	mm (in)	105 (4.1)		
Stroke	mm (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 Perform	ance Data	50 Hz	60 Hz	
Engine Speed	rpm	1500	1800	
Gross Engine Power Pr	rime kW (hp)	55 (74)	63.3 (85)	
Gross Engine Power St		60.5 (81)	71.3 (96)	
BMEP Prime	kPa (psi)	1333 (193.4)	1279 (185.5)	
		4.4(7,(242,0)	140((200)	

1467 (212.8)



Fuel System					
Fuel Filter Type:			Replaceable Ele	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)	12.8 (3.4)	11.6 (3.1)	8.7 (2.3)	6.2 (1.6)
50 Hz Standby	l/hr (US gal/hr)	-	12.8 (3.4)	9.5 (2.5)	6.7 (1.8)
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 classA2,EN590

Air System		50 Hz	60 Hz
Air Filter Type:			Replaceable Element
Combustion Air Flow Prime	m³/min (cfm)	3.8 (134)	
Combustion Air Flow Standby	m³/min (cfm)	3.9 (138)	
Max. Combustion Air Intake Restriction	kPa	8 (32.1)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	10.2 (2.7)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	35.2 (2002)	
Heat Rejected to Water & Lube Oil: Standby	v kW (Btu/min)	37.7 (2144)	
Heat Radiation to Room*: Prime	kW (Btu/min)	15.5 (881)	
Heat Radiation to Room*: Standby	kW (Btu/min)	17 (967)	
Radiator Fan Load:	kW (hp)	1 (1.3)	
Radiator Cooling Airflow:	m³/min (cfm)	110.4 (3899)	
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 Dealer for power ratings at specific site conditions.

Lubrication System	•							
Oil Filter Type:			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:			API CG4 / CH4 15W-40					
Oil Cooling Method:	Oil Cooling Method:		WATER					
Exhaust System		50 Hz	60 Hz					
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)						
Exhaust Gas Flow: Prime	m³/min (cfm)	10.1 (357)						
Exhaust Gas Flow: Standby	m³/min (cfm)	10.4 (367)						
Exhaust Gas Temperature: Prime	°C (°F)	557 (1035)						
Exhaust Gas Temperature: Standby	°C (°F)	571 (1060)						



Alternator Physical	ναια					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					6P/6S	
Wires:					4	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					R120	
dependant on voltage code selected	d					
Alternator Operatin	ig Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/I	_N:	%			2	
Radio Interference:					EN61000-6	
			6 (341)			
		kW (Btu/min)				
Radiant Heat: 50 Hz		kW (Btu/min) kW (Btu/min)			6 (341) 0 ()	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform a	ance Da	kW (Btu/min)	415/240 V			220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform a	ance Da	kW (Btu/min)	415/240 V	400/230 V	0 ()	220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform: Voltage Code	ance Da	kW (Btu/min)	415/240 V 86		0 ()	220/127 V 95
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*		kW (Btu/min)		400/230 V 200/115 V	0 () 380/220 V	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA	kW (Btu/min)	86	400/230 V 200/115 V 81	0 () 	95
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	86 270	400/230 V 200/115 V 81 270	0 () 380/220 V 74 270	95 270
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	86 270 2.64	400/230 V 200/115 V 81 270 2.84	0 () 380/220 V 74 270 2.993	95 270 2.02
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min)	86 270 2.64 0.131	400/230 V 200/115 V 81 270 2.84 0.141	0 () 380/220 V 74 270 2.993 0.148	95 270 2.02 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min)	86 270 2.64 0.131	400/230 V 200/115 V 81 270 2.84 0.141	0 () 380/220 V 74 270 2.993 0.148	95 270 2.02 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min)	86 270 2.64 0.131	400/230 V 200/115 V 81 270 2.84 0.141	0 () 380/220 V 74 270 2.993 0.148	95 270 2.02 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd X'd X''d Ance Da	kW (Btu/min) Ita 50 Hz:	86 270 2.64 0.131 0.072	400/230 V 200/115 V 81 270 2.84 0.141 0.072	0 () 380/220 V 74 270 2.993 0.148 0.076	95 270 2.02 0.1 0.05
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd X'd X''d Ance Da	kW (Btu/min)	86 270 2.64 0.131	400/230 V 200/115 V 81 270 2.84 0.141	0 () 380/220 V 74 270 2.993 0.148	95 270 2.02 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X''d Ance Da	kW (Btu/min) Ita 50 Hz:	86 270 2.64 0.131 0.072	400/230 V 200/115 V 81 270 2.84 0.141 0.072	0 () 380/220 V 74 270 2.993 0.148 0.076	95 270 2.02 0.1 0.05
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X''d X''d Ance Da	kW (Btu/min) Ita 50 Hz:	86 270 2.64 0.131 0.072	400/230 V 200/115 V 81 270 2.84 0.141 0.072	0 () 380/220 V 74 270 2.993 0.148 0.076	95 270 2.02 0.1 0.05

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.

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



Output Ratings 50 Hz

		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	50	40	55	44
400/230V	50	40	55	44
380/220V	48.5	38.8	53	42.4
230/115V	50	40	55	44
220/127V	50	40	55	44
220/110V	48.5	38.8	53	42.4
200/115V	50	40	55	44
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.