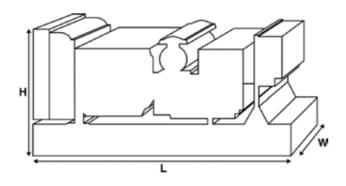


Output Ratings			
Voltage, Frequency	Prime	Standby	
kVA	30	33	
kW	24	26.4	
kVA			
kW			



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	1570 (61.8)		
Width	mm	760 (29.9)		
Height	mm	1231 (48.5)		
Weight (Dry)	kg	660 (1455)		
Weight (Wet)	kg	673 (1484)		

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:		1103D-33G3	
Alternator Make			
Alternator Model:		20030	
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)	71 (18.76)	
Fuel Consumption Prime	litres (US gal)/hr	7.4 (2)	
Fuel Consumption Standby	litres (US gal)/hr	8.2 (2.2)	
Engine Technical Dat	a		
No. of Cylinders		3	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore mr	m (in)	105 (4.1)	
Stroke mr	m (in)	127 (5)	
Induction		NATURALLY ASPIRATED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		19.25:1	
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)	329 (725)	
Engine Weight Wet kg	(lb)	348 (767)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	29.7 (40)	
Gross Engine Power Standby	kW (hp)	33 (44)	
BMEP Prime	kPa (psi)	1023 (104.5)	
BMEP Standby	kPa (psi)	1128 (116.1)	

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby



Fuel System						
Fuel Filter Type:				Replaceable Ele	ement	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/	hr)	8.2 (2.2)	7.4 (2)	5.7 (1.5)	4 (1.1)
50 Hz Standby	l/hr (US gal/	hr)	-	8.2 (2.2)	6.2 (1.6)	4.3 (1.1)
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	f 0.84 and conforming	to BS2869 classA2	2,EN590		
Air System			5	0 Hz	60 Hz	
Air Filter Type:					Replaceable Elemer	t
Combustion Air Flow P	rime	m³/min (cfm)	2.	1 (75)		
Combustion Air Flow S	tandby	m³/min (cfm)	2.	2 (76)		
Max. Combustion Air In	take Restriction	kPa	6.	6 (26.5)		
Cooling System			5	0 Hz	60 Hz	
Cooling System Capaci	ty	l (US gal)	10	0.2 (2.7)		
Water Pump Type:					Centrifugal	
Heat Rejected to Water	& Lube Oil: Prime	kW (Btu/min)	2	1.3 (1211)		
Heat Rejected to Water	& Lube Oil: Stand	lby kW (Btu/min)	2:	3.9 (1359)		
Heat Radiation to Room	n*: Prime	kW (Btu/min)	8	(455)		
Heat Radiation to Room	n*: Standby	kW (Btu/min)	8.	8 (500)		
Radiator Fan Load:		kW (hp)	0.	3 (0.4)		
Radiator Cooling Airflo	w:	m³/min (cfm)	58	8.2 (2055)		
External Restriction to 0		Pa (in H2O)	12	25 (0.5)		
*: Heat radiated from engi Designed to operate in am Contact your local PEGC Po conditions.	bient conditions up ower Solutions Deale		specific site			
Lubrication Syst	:em					
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 15V	V-40
Oil Cooling Method:					WATER	
Exhaust System				0 Hz	60 Hz	
Maximum Allowable Ba		Pa (in Hg)		5 (4.4)		
Exhaust Gas Flow: Prim	e n	n³/min (cfm)	5.	3 (185)		

5.5 (194)

515 (959)

570 (1058)

m³/min (cfm)

°C (°F)

°C (°F)



Alternator Physical Data					
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					
Alternator Operating Dat	a				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state)	%		+/- 0.5		
Wave Form NEMA = TIF:			50		
Wave Form IEC = THF:	%		2		
Total Harmonic content LL/LN: %			2		
Radio Interference:			EN61000-6		
Radiant Heat: 50 Hz	kW (Btu/min)		3.8 (216)		
Radiant Heat: 60 Hz kW (Btu/min)					
Alternator Performance I	Data 50 Hz:				
		415/240 V	400/230 V	380/220 V	
Voltage Code					
Motor Starting Capability* kVA		49	46	42	
Short Circuit Capacity** %		270	270	270	270
Reactances Xd		2.44	2.63	2.909	
VI I		0.141	0.152	0.168	
X'd		0.077	0.077	0.085	
X'd X"d		0.077	0.077	0.003	

270

270

270

270

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 270

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

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

220/127V 220/110V

208/120V

240/120

220/110



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	30	24	33	26.4
400/230V	30	24	33	26.4
380/220V	30	24	33	26.4
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
output Ratings	00 112	Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V				
440/254V				
416/240V				
400/230V				
400/230V 380/220V				
416/240V 400/230V 380/220V 240/139V 240/120V				



#



P33-6_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.).