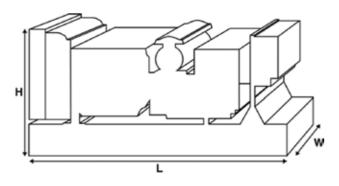


Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	45	50			
kW	36	40			
kVA					
kW					



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	751 (1656)					
Weight (Wet)	kg	764 (1684)					

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:		20060				
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 Prime	litres (US gal)/hr	10.5 (2.8)				
Fuel Consumption Standby	litres (US gal)/hr	11.7 (3.1)				
Engine Technical Da	 ta					
No. of Cylinders		3				
Alignment		IN LINE				
Cycle		4 STROKE				
-	m (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 Performance	e Data	50 Hz	60 Hz			
Engine Speed	rpm	1500	1800			
Gross Engine Power Prime	kW (hp)	42.2 (57)	50.5 (68)			
Gross Engine Power Standby		46.5 (62)	54.5 (73)			
BMEP Prime	kPa (psi)	1023 (148.4)	1020 (148)			
BMEP Standby	kPa (psi)	11128 (163.5)	1124 (159.7)			



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)	11.7 (3.1)	10.5 (2.8)	7.8 (2.1)	5.6 (1.5)
50 Hz Standby	l/hr (US gal		-	11.7 (3.1)	8.7 (2.3)	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 classA2,	EN590		
Air System			50) Hz	60 Hz	
Air Filter Type:					Replaceable Elemer	nt
Combustion Air Flow Pr	rime	m³/min (cfm)	2.9	(102)		
Combustion Air Flow St	andby	m³/min (cfm)	3.1	(109)		
Max. Combustion Air Int	ake Restriction	kPa	8 (:	32.1)		
Cooling System			50	Hz	60 Hz	
Cooling System Capacit	:y	l (US gal)		2 (2.7)		
Water Pump Type:					Centrifugal	
Heat Rejected to Water	& Lube Oil: Prim	e kW (Btu/min)	26.	1 (1484)		
Heat Rejected to Water	& Lube Oil: Star	ndby kW (Btu/min)	30	(1706)		
Heat Radiation to Room	*: Prime	kW (Btu/min)	11.	9 (677)		
Heat Radiation to Room	n*: Standby	kW (Btu/min)	13.	4 (762)		
Radiator Fan Load:		kW (hp)	0.5	(0.7)		
Radiator Cooling Airflov	v:	m³/min (cfm)	86.	4 (3051)		
External Restriction to C	Cooling Airflow:	Pa (in H2O)	125	5 (0.5)		
*: Heat radiated from engir Designed to operate in am Contact your local PEGC Po conditions.	bient conditions up	Y Y	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			50) Hz	60 Hz	
Maximum Allowable Bad	ck Pressure:	kPa (in Hg)	10	(3)		
Exhaust Gas Flow: Prime	9	m³/min (cfm)	7 (247)		
Exhaust Gas Flow: Stand	dby	m³/min (cfm)	7.7	(272)		
Exhaust Gas Temperatur	e: Prime	°C (°F)	492	2 (918)		

537 (999)

°C (°F)

Exhaust Gas Temperature: Standby



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 Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady s	state)	%			+/- 0.5	
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF: %		%		2		
Total Harmonic content LL/L	N:	%		2		
Radio Interference:				EN61000-6		
Radiant Heat: 50 Hz		kW (Btu/min)		5.4 (307)		
Radiant Heat: 60 Hz		kW (Btu/min)	W (Btu/min) 0 ()			
Alternator Performa	nce Da	nta 50 Hz:				
Valtara Cada			415/240 V	400/230 V	380/220 V	220/127 V
Voltage Code				200/115 V		
Motor Starting Capability*	kVA		74	69	64	81
Short Circuit Capacity**	%		270	270	270	270
Reactances	Xd		2.74	2.95	3.127	2.12
	X'd		0.141	0.152	0.161	0.11
	X"d		0.076	0.076	0.08	0.05

Voltage Code

Motor Starting Capability*	kVA						
Short Circuit Capacity**	%	270	270	270	270	270	
Reactances	Xd						
	X'd						
	X"d						

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)

220/127V 220/110V

208/120V

240/120220/110



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	45	36	50	40
400/230V	45	36	50	40
380/220V	45	36	50	40
230/115V	45	36	50	40
220/127V	45	36	50	40
220/110V	45	36	50	40
200/115V	45	36	50	40
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				



#



P50-3_50Hz

Dea	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.).