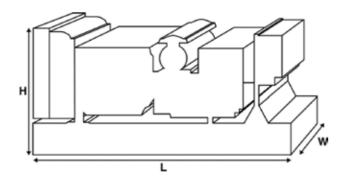


Output Ratings				
Voltage, Frequency	Prime	Standby		
kVA	60	65		
kW	48	52		
kVA				
kW				



### Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



<b>Dimensions and Weights</b>				
Length	mm	1680 (66.1)		
Width	mm	760 (29.9)		
Height	mm	1330 (52.4)		
Weight (Dry)	kg	765 (1687)		
Weight (Wet)	kg	778 (1715)		

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-33TG2	
Alternator Make			
Alternator Model:		20080	
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	13.7 (3.6)	
Fuel Consumption Standby	litres (US gal)/hr	15 (4)	
Engine Technical Dat	'a		
No. of Cylinders	,a	3	
Alignment		IN LINE	
Cycle		4 STROKE	
-	m (in)	105 (4.1)	
	m (in)	127 (5)	
Induction		TURBOCHARGED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		17.25:1	
·	cu. in)	3.3 (201.4)	
· ·	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	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	55 (74)	63.3 (85)
Gross Engine Power Standby	kW (hp)	60.5 (81)	71.3 (96)
BMEP Prime	kPa (psi)	1333 (193.4)	1279 (185.5)
BMEP Standby	kPa (psi)	1467 (212.8)	1406 (209)

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

°C (°F)

°C (°F)



Fuel System						
Fuel Filter Type:				Replaceable El	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)		15 (4)	13.7 (3.6)	10.2 (2.7)	7.1 (1.9)
50 Hz Standby	l/hr (US gal/hr)		-	15 (4)	11 (2.9)	7.6 (2)
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 classA	2,EN590		
Air System			5	60 Hz	60 Hz	
Air Filter Type:					Replaceable Elemer	it
Combustion Air Flow Prin	ne n	n³/min (cfm)	3.	.8 (134)	•	
Combustion Air Flow Star		n³/min (cfm)		.9 (138)		
Max. Combustion Air Intal	•	Pa		(32.1)		
Cooling System			5	60 Hz	60 Hz	
Cooling System Capacity		l (US gal)		0.2 (2.7)	00112	
Water Pump Type:		(03 541)			Centrifugal	
Heat Rejected to Water &	Lube Oil: Prime	kW (Btu/min)	3	5.2 (2002)	ĭ	
Heat Rejected to Water &		kW (Btu/min)	3	7.7 (2144)		
Heat Radiation to Room*:		kW (Btu/min)		5.5 (881)		
Heat Radiation to Room*:		kW (Btu/min)		7 (967)		
Radiator Fan Load:	•	kW (hp)	1	(1.3)		
Radiator Cooling Airflow:		m³/min (cfm)	1	10.4 (3899)		
External Restriction to Co	oling Airflow:	Pa (in H2O)	1:	25 (0.5)		
*: Heat radiated from engine Designed to operate in ambio Contact your local PEGC Pow conditions.	ent conditions up to ver Solutions Dealer fo		specific site			
<b>Lubrication Syste</b>	m					
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	
<b>Exhaust System</b>			5	60 Hz	60 Hz	
Maximum Allowable Back	Pressure: kPa	(in Hg)	1	0 (3)		
Exhaust Gas Flow: Prime	m <sup>3</sup> /	min (cfm)	1	0.1 (357)		
Exhaust Gas Flow: Standb	by m³/	min (cfm)	1	0.4 (367)		
		_	_	ET (403E)		

557 (1035)

571 (1060)



<b>Alternator Physical Da</b>	ta				
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 [	Data				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state	e) %			+/- 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)			6 (341)	
Radiant Heat: 60 Hz	kW (Btu/min)			0 ()	
Alternator Performance	e Data 50 Hz:				
Voltago Codo		415/240 V	400/230 V	380/220 V	220/127 V
Voltage Code			200/115 V		
Motor Starting Capability* k	<b>V</b> A	122	115	106	134
Short Circuit Capacity** %		270	270	270	270
Reactances Xo	d	2.82	3.04	3.253	2.18
X'	d	0.136	0.146	0.157	0.105
Χ"	'd	0.075	0.075	0.08	0.054

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.

<sup>\*</sup>Based on 30% voltage dip at 0.6 power factor.

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)

220/127V 220/110V

208/120V 240/120

220/110



<b>Output Ratings</b>	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	60	48	65	52	
400/230V	60	48	65	52	
380/220V	60	48	65	52	
230/115V	60	48	65	52	
220/127V	60	48	65	52	
220/110V	60	48	65	52	
200/115V	60	48	65	52	
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					



#



P65-5\_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 <a href="https://www.pegcpowersolutions.com">www.pegcpowersolutions.com</a>.

PEGC Power Solutions is a trading name of Public Electric Generator Concern (PEGC Power Solutions & Engineering Services (Pvt) Ltd.).