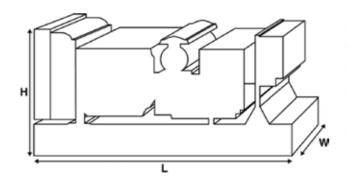


Output Ratings						
Voltage, Frequency	Prime	Standby				
kVA	400	450				
kW	320	360				
kVA						
kW						



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	3800 (149.6)			
Width	mm	1131 (44.5)			
Height	mm	2156 (84.9)			
Weight (Dry)	kg	3175 (7000)			
Weight (Wet)	kg	3233 (7128)			

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:



Engino Mako		Perkins					
Engine Make		2206D-E13TAG3A					
Engine Model: Alternator Make		2200D-E131AG3A					
		204220					
Alternator Model:		29A320 100	29A320				
Control Panel:			to al				
Base Frame:		Heavy Duty Fabricated S 3 Pole MCCB	teet				
Circuit Breaker Type:							
Frequency:		50 HZ 1500	60 HZ				
Engine Speed: RPM	rpm						
Fuel Tank Capacity:	litres (US gal)	888 (234.58)					
Fuel Consumption Prime	litres (US gal)/hr	88.5 (23.4)					
Fuel Consumption Standby	/ litres (US gal)/hr	97.8 (25.8)					
Engine Technical D	ata						
No. of Cylinders		6					
Alignment		IN LINE					
Cycle		4 STROKE					
Bore	mm (in)	130 (5.1)					
	mm (in)	157 (6.2)	157 (6.2)				
Induction		TURBOCHARGED AIR TO) AIR CHARGE COOLED				
Cooling Method		WATER	WATER				
Governing Type		ELECTRONIC					
Governing Class		ISO 8528 G2					
Compression Ratio		15.8:1					
•	L (cu. in)	12.5 (762.8)					
-	kg m² (lb/in²)	2.77 (9465)					
Voltage	,	24					
Ground		Negative					
Battery Charger Amps		70					
	kg (lb)	1301 (2868)					
	kg (lb)	1351 (2978)					
3 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2							
Engine Performance Data		50 Hz	60 Hz				
Engine Speed	rpm	1500					
Gross Engine Power Prime	kW (hp)	367 (492)					
Gross Engine Power Standl	by kW (hp)	412 (553)					
BMEP Prime	kPa (psi)	2348 (340.6)					
BMEP Standby	kPa (psi)	2685 (382.3)					



Fuel System				D 1 11	Florida	
Fuel Filter Type:				Replaceable		
Recommended Fuel:				Class A2 Die		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
	l/hr (US gal/		97.8 (25.8)	88.5 (23.4)	69.4 (18.3)	50.1 (13.2)
50 Hz Standby	l/hr (US gal/	hr)	-	97.8 (25.8)	76.5 (20.2)	55.1 (14.6)
60 Hz Prime	l/hr (US gal/	hr)				
60 Hz Standby	l/hr (US gal/	hr)	-			
(Based on diesel fuel with a spec	ific gravity of	0.85 and conforming	to BS2869 class.	A2,EN590		
Air System				50 Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Prime		m³/min (cfm)		25.6 (904)		
Combustion Air Flow Standby	/	m³/min (cfm)		28.3 (999)		
Max. Combustion Air Intake R	estriction	kPa	(6.2 (24.9)		
Cooling System				50 Hz	60 Hz	
Cooling System Capacity		l (US gal)		45.2 (11.9)		
Water Pump Type:					Centrifugal	
Heat Rejected to Water & Lub	e Oil: Prime	kW (Btu/min)		126.8 (7211)		
Heat Rejected to Water & Lub	e Oil: Stand	by kW (Btu/min)		140 (7962)		
Heat Radiation to Room*: Prin	me	kW (Btu/min)		55.3 (3145)		
Heat Radiation to Room*: Sta	ındby	kW (Btu/min)	(65.4 (3719)		
Radiator Fan Load:		kW (hp)		14 (18.8)		
Radiator Cooling Airflow:		m³/min (cfm)		398.4 (14069)		
External Restriction to Coolin	g Airflow:	Pa (in H2O)		125 (0.5)		
*: Heat radiated from engine and Designed to operate in ambient of Contact your local PEGC Power So conditions.	conditions up		specific site			
Lubrication System						
Oil Filter Type:					Eco, Full flow	
	JS gal)				40 (10.6)	
	JS gal)				38 (10)	
Oil Type:					API CG4 SAE15W-	40
Oil Cooling Method:					WATER	
Exhaust System				50 Hz	60 Hz	
Maximum Allowable Back Pre	ssure: k	Pa (in Hg)		10 (3)		
Exhaust Gas Flow: Prime	n	n³/min (cfm)	(68.3 (2412)		
Exhaust Gas Flow: Standby	n	n³/min (cfm)		72.5 (2560)		
Exhaust Gas Temperature: Pri	me °	C (°F)		540 (1004)		
E				EEO (403()		

558 (1036)

°C (°F)

Exhaust Gas Temperature: Standby

Alternator Physical Data



No. of Bearings:				1	
Insulation Class:				Н	
Winding Pitch:				2/3	
Winding Code				R1	
Wires:				12	
Ingress Protection Rating:				IP21	
Excitation System:				SHUNT	
AVR Model:				A106 MKII	
dependant on voltage code selected Alternator Operating Data	<u> </u>				
Overspeed: rpm	•			2250	
Voltage Regulation: (Steady state)	%			+/- 1.0	
Wave Form NEMA = TIF:				50	
Wave Form IEC = THF:	%			2	
Total Harmonic content LL/LN:	%			3	
Radio Interference:				EN61000-6	
Radiant Heat: 50 Hz	kW (Btu/min)			25.4 (1444)	
Radiant Heat: 60 Hz	kW (Btu/min)				
Alternator Performance D	ata 50 Hz:				
		415/240 V	400/230 V	380/220 V	
Voltage Code					
			230 V		

973

300

3.084

0.113

0.11

895

300

3.32

0.121

0.11

805

300

3.494

0.127

0.116

300

Alternator Performance Data 60 Hz

kVA

%

Xd

X'd

X"d

Voltage Code

Reactances

Motor Starting Capability*

Short Circuit Capacity**

Motor Starting Capability*	kVA						
Short Circuit Capacity**	%	300	300	300	300	300	
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)



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	400	320	450	360
400/230V	400	320	450	360
380/220V	380	304	437	349.6
230/115V	400	320	450	360
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
- Catput Ratings		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.).