

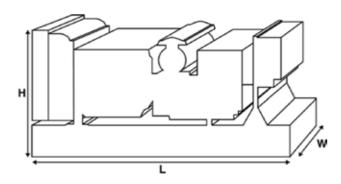
#### Standard Alternator

Out	but	Rati	nas

Voltage, Frequency		Prime	Standby
	kVA		
	kW		
480/277V, 60 Hz	kVA	681.3	750
-007277¥, 00 HZ	kW	545.04	600

#### 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	3900 (153.5)		
Width	mm	1461 (57.5)		
Height	mm	2156 (84.9)		
Weight (Dry)	kg	4274 (9423)		
Weight (Wet)	kg	4342 (9572)		

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:



<b>Ratings and Performa</b>	ance Data	
Engine Make		Perkins
Engine Model:		2806A-E18TAG3
Alternator Make		
Alternator Model:		33A500
Control Panel:		100
Base Frame:		Heavy Duty Fabricated Steel
Circuit Breaker Type:		3 Pole MCCB
Frequency:		50 HZ 60 HZ
Engine Speed: RPM	rpm	1800
Fuel Tank Capacity:	litres (US gal)	1132 (299.04)
Fuel Consumption Prime	litres (US gal)/hr	138.9 (36.7)
Fuel Consumption Standby	litres (US gal)/hr	155 (40.9)

## Engine Technical Data

No. of Cylinders		6
Alignment		IN LINE
Cycle		4 STROKE
Bore	mm (in)	145 (5.7)
Stroke	mm (in)	183 (7.2)
Induction		TURBOCHARGED AIR TO AIR CHARGE COOLED
Cooling Method		WATER
Governing Type		ELECTRONIC
Governing Class		ISO 8528 G2
Compression Ratio		14.5:1
Displacement	L (cu. in)	18.1 (1104.5)
Moment of Inertia:	kg m² (lb/in²)	7.44 (25424)
Voltage		24
Ground		Negative
Battery Charger Amps		70
Engine Weight Dry	kg (lb)	2050 (4519)
Engine Weight Wet	kg (lb)	2158 (4758)

<b>Engine Performance</b>	Data	50 Hz	60 Hz
Engine Speed	rpm		1800
Gross Engine Power Prime	kW (hp)		617.5 (828)
Gross Engine Power Standby	kW (hp)		678.2 (909)
BMEP Prime	kPa (psi)		2270 (329.3)
BMEP Standby	kPa (psi)		2493 (361.7)



Fuel System					
Fuel Filter Type:			Eco Replaceable	Element	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)				
50 Hz Standby	l/hr (US gal/hr)	-			
60 Hz Prime	l/hr (US gal/hr)	155 (40.9)	138.9 (36.7)	103.3 (27.3)	72.5 (19.2)
60 Hz Standby	l/hr (US gal/hr)	-	155 (40.9)	113.5 (30)	78.5 (20.7)
			1500		

(Based on diesel fuel with a specific gravity of 0.86 and conforming to BS2869 classA2, EN590

Air System		50 Hz	60 Hz	
Air Filter Type:			Non Canister	
Combustion Air Flow Prime	m³/min (cfm)		47.2 (1667)	
Combustion Air Flow Standby	m³/min (cfm)		50.5 (1783)	
Max. Combustion Air Intake Restriction	kPa		6.2 (24.9)	

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)		68.5 (18.1)
Water Pump Type:		Centrifug	gal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)		170 (9668)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)		177 (10066)
Heat Radiation to Room*: Prime	kW (Btu/min)		75 (4265)
Heat Radiation to Room*: Standby	kW (Btu/min)		82 (2820)
Radiator Fan Load:	kW (hp)		15.7 (21.1)
Radiator Cooling Airflow:	m³/min (cfm)		481.2 (16993)
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 Power Solutions Dealer for power ratings at specific site conditions.

Lubrication System				
Oil Filter Type:			Eco, Full flow	
Total Oil Capacity: l (US gal	)		62 (16.4)	
Oil Pan Capacity: l (US gal	)		53 (14)	
Oil Type:			API CH4 / CI4	
Oil Cooling Method:			WATER	
Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure	kPa (in Hg)		6.9 (2)	
Exhaust Gas Flow: Prime	m³/min (cfm)		125 (4414)	

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Exhaust Gas Flow: Standby	m <sup>3</sup> /min (cfm)	135.7 (4792)
Exhaust Gas Temperature: Prime	°C (°F)	517.6 (964)
Exhaust Gas Temperature: Standby	°C (°F)	542.8 (1009)



Alternator Physical Data		
No. of Bearings:		1
Insulation Class:		Н
Winding Pitch:		2/3
Winding Code		R16/R1
Wires:		6/12
Ingress Protection Rating:		IP21
Excitation System:		SHUNT
AVR Model:		GTR7-TH4E
* dependant on voltage code selected		
Alternator Operating Data	)	
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:EN61000-6Radiant Heat: 50 HzkW (Btu/min)Radiant Heat: 60 HzkW (Btu/min)33 (1877)

### **Alternator Performance Data 50 Hz:**

Voltage Code

Motor Starting Capability*	kVA				
Short Circuit Capacity**	%	300	300	300	300
Reactances	Xd				
	X'd				
	X"d				

Alternator Performa	ince Data	60 Hz				
		480/277 V	380/220 V			440/254 V
Voltage Code		240/139 V				220/127 V
Motor Starting Capability*	kVA	2085	1310			1750
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	2.488	3.729			2.961
	X'd	0.117	0.175			0.139
	X"d	0.093	0.139			0.111

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					
400/230V					
380/220V					
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					

# Output Ratings 60 Hz

		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V	681.3	545	750	600
440/254V	681.3	545	750	600
416/240V				
400/230V				
380/220V	640	512	703.8	563.04
240/139V	681.3	545	750	600
240/120V				
230/115V				
220/127V	681.3	545.04	750	600
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.