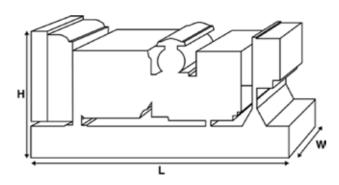


#### Standard Alternator

	,-		
Voltage, Frequency		Prime	Standby
	kVA	550	605
	kW	440	484
	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	3900 (153.5)			
Width	mm	1461 (57.5)			
Height	mm	2156 (84.9)			
Weight (Dry)	kg	4134 (9114)			
Weight (Wet)	kg	4202 (9264)			

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:



Datings and Daufarma	ance Data		
Ratings and Perform	ance Data	Destrict	
Engine Make		Perkins	
Engine Model:		2806A-E18TAG1	
Alternator Make			
Alternator Model:		33A450	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	1132 (299.04)	
Fuel Consumption Prime	litres (US gal)/hr	107.4 (28.4)	
Fuel Consumption Standby	litres (US gal)/hr	119 (31.4)	
Engine Technical Dat	ta		
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
	m (in)	145 (5.7)	
	m (in)	183 (7.2)	
Induction		TURBOCHARGED AIR TO AIR CHA	RGE COOLED
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528 G2	
Compression Ratio		14.5:1	
-	cu. in)	18.1 (1104.5)	
	m² (lb/in²)	7.44 (25424)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		70	
	(1b)	2050 (4519)	
	(lb)	2158 (4758)	
Engine Weight Wet kg	(lb)		
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	495 (664)	
Gross Engine Power Standby	kW (hp)	544 (730)	
BMEP Prime	kPa (psi)	2184 (316.8)	



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)	119 (31.4)	107.4 (28.4)	80.9 (21.4)	57.3 (15.1)
50 Hz Standby	l/hr (US gal/hr)	-	119 (31.4)	88.4 (23.4)	61.9 (16.4)
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 0.86 and conforming to BS2869 classA2, EN590

Air System		50 Hz	60 Hz	
Air Filter Type:			Non Canister	
Combustion Air Flow Prime	m³/min (cfm)	37 (1307)		
Combustion Air Flow Standby	m³/min (cfm)	40 (1413)		
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	68.5 (18.1)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prim	e kW (Btu/min)	185 (10521)		
Heat Rejected to Water & Lube Oil: Star	ndby kW (Btu/min)	190.9 (10856)		
Heat Radiation to Room*: Prime	kW (Btu/min)	70.1 (3987)		
Heat Radiation to Room*: Standby	kW (Btu/min)	71.2 (4049)		
Radiator Fan Load:	kW (hp)	9 (12.1)		
Radiator Cooling Airflow:	m <sup>3</sup> /min (cfm)	373.2 (13179)		
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)		
	1 a (iii 1120)	125 (0.5)		
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions.	p to 50°C (122°F).			
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal	p to 50°C (122°F).			
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions.	p to 50°C (122°F).		Eco, Full Flow	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. <b>Lubrication System</b>	p to 50°C (122°F).		Eco, Full Flow 62 (16.4)	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. <b>Lubrication System</b> Oil Filter Type:	p to 50°C (122°F).			
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal)	p to 50°C (122°F).		62 (16.4)	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. <b>Lubrication System</b> Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal)	p to 50°C (122°F).		62 (16.4) 53 (14)	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type:	p to 50°C (122°F).		62 (16.4) 53 (14) API CH4 / CI4	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. <b>Lubrication System</b> Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: <b>Exhaust System</b>	p to 50°C (122°F).	: site	62 (16.4) 53 (14) API CH4 / CI4 WATER	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: Exhaust System Maximum Allowable Back Pressure:	p to 50°C (122°F). ler for power ratings at specific	50 Hz	62 (16.4) 53 (14) API CH4 / CI4 WATER	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. <b>Lubrication System</b> Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: <b>Exhaust System</b> Maximum Allowable Back Pressure: Exhaust Gas Flow: Prime	p to 50°C (122°F). ler for power ratings at specific kPa (in Hg)	50 Hz 6.9 (2)	62 (16.4) 53 (14) API CH4 / CI4 WATER	
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deal conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: Exhaust System Maximum Allowable Back Pressure: Exhaust Gas Flow: Prime Exhaust Gas Flow: Standby	p to 50°C (122°F). ler for power ratings at specific kPa (in Hg) m <sup>3</sup> /min (cfm)	50 Hz 6.9 (2) 88 (3108)	62 (16.4) 53 (14) API CH4 / CI4 WATER	



Alternator Physical Data		
No. of Bearings:		1
Insulation Class:		Н
Winding Pitch:		2/3
Winding Code		R16
Wires:		6
Ingress Protection Rating:		IP21
Excitation System:		SHUNT
AVR Model:		GTR7-TH4E
* dependant on voltage code selected		
Alternator Operating Data	1	
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)	32 (1820)

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

kW (Btu/min)

		415/240 V	400/230 V	380/220 V	
Voltage Code					
			230 V		
Motor Starting Capability*	kVA	1307	1205	1106	
Short Circuit Capacity**	%	300	300	300	300
Reactances	Xd	2.435	2.622	2.823	
	X'd	0.121	0.13	0.14	
	X"d	0.105	0.105	0.112	

### **Alternator Performance Data 60 Hz**

Voltage Code	
--------------	--

Radiant Heat: 60 Hz

Motor Starting Capability*	kVA	1432	916			1207
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 0.4 power factor.

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



Output Ratings 50 Hz					
	Prime			Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	550	440	605	484	
400/230V	550	440	605	484	
380/220V	533.8	427.04	605	484	
230/115V	550	440	605	484	
220/127V					
220/110V					
200/115V					
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					
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.).

In line with our policy of continuous product development, we reserve the right to change specification without notice.