

P715-3

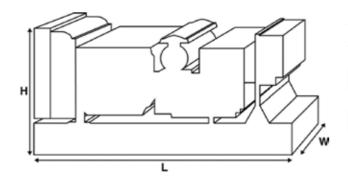
Standard Alternator

Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	650	715			
kW	520	572			
kVA					
kW					



Ratings at 0.8 power factor.

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



Dimension	s and Weights	
Length	mm	3900 (153.5)
Width	mm	1461 (57.5)
Height	mm	2156 (84.9)
Weight (Dry)	kg	4454 (9819)
Weight (Wet)	kg	4522 (9969)

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 Solution 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:



Ratings and Perform	ance Data		
Engine Make		Perkins	
Engine Model:		2806A-E18TAG2	
Alternator Make			
Alternator Model:		33A560	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated Ste	el
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	127.6 (33.7)	
Fuel Consumption Standby	litres (US gal)/hr	142 (37.5)	
Engine Technical Dat	a		
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore mi	m (in)	145 (5.7)	
Stroke mi	m (in)	183 (7.2)	
Induction		TURBOCHARGED AIR TO A	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)	7.05 (24091)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		70	
Engine Weight Dry kg	(lb)	2050 (4519)	
	(lb)	2158 (4758)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	584 (783)	
Gross Engine Power Standby	kW (hp)	628 (842)	
BMEP Prime	kPa (psi)	2576 (373.7)	
BMEP Standby	kPa (psi)	2770 (401.9)	



Fuel System					
Fuel Filter Type:			Eco Rep	laceable Element	
Recommended Fuel:			Class A2	2 Diesel	
Fuel Consumption at		110 % Loa	d 100 % L	oad 75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	142 (37.5)	127.6 (3	3.7) 94.8 (25)	66 (17.4)
50 Hz Standby	l/hr (US gal/hr)	-	142 (37.	5) 104 (27.5)	71.5 (18.9)
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 an	d conforming to BS2869 cla	assA2,EN590		
Air System			50 Hz	60 H	Z
Air Filter Type:				Non Canister	
Combustion Air Flow Pri	me m³/m	n (cfm)	37 (1307)		
Combustion Air Flow Sta	ndby m³/m	n (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: Prime	kW (Btu/min)	202 (11488)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	219 (12454)		
Heat Radiation to Room*: Prime	kW (Btu/min)	69.3 (3941)		
Heat Radiation to Room*: Standby	kW (Btu/min)	76.1 (4328)		
Radiator Fan Load:	kW (hp)	9 (12.1)		
Radiator Cooling Airflow:	m³/min (cfm)	373.2 (13179)		
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 Solution Dealer for power ratings at specific site conditions.

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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)	106 (3743)		
Exhaust Gas Flow: Standby	m³/min (cfm)	114 (4026)		
Exhaust Gas Temperature: Prime	°C (°F)	555 (1031)		
Exhaust Gas Temperature: Standby	°C (°F)	553 (1027)		



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	i					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady s	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/L	N:	%			3	
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)			31.1 (1769)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	ance Da	ata 50 Hz:				
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Voltage Code			4137 Z40 V	4007 230 V	3007220 ¥	
voltage code				230 V		
Motor Starting Capability*	kVA		1763	1650	1488	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		2.327	2.504	2.775	
	X'd		0.106	0.114	0.126	
	X"d		0.089	0.089	0.099	
Alternator Performa	ance Da	ata 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd					

Reactances shown are applicable to prime ratings.

X"d

^{*}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	650	520	715	572	
400/230V	650	520	715	572	
380/220V	650	520	715	572	
230/115V	650	520	715	572	
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output Ratings	00 112	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					





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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.).