

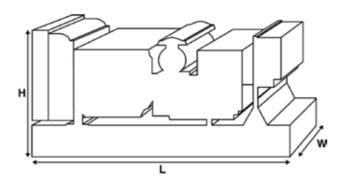
Standard Alternator

	Out	but	Rati	nas
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	Voltage, Frequency		Prime	Standby
		kVA		
		kW		
	480/277V, 60 Hz	kVA	225	250
		kW	180	200

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	2662 (104.8)			
Width	mm	1071 (42.2)			
Height	mm	1818 (71.6)			
Weight (Dry)	kg	1952 (4303)			
Weight (Wet)	kg	1985 (4376)			

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 Performance Data						
Engine Make		Perkins				
Engine Model:		1506A-E88TAG2				
Alternator Make						
Alternator Model:		5114F				
Control Panel:		E7410				
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)	528 (139.48)				
Fuel Consumption Prime	litres (US gal)/hr	49.7 (13.1)				
Fuel Consumption Standby	litres (US gal)/hr	54.6 (14.4)				

Engine Technical Data

No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	112 (4.4)	
Stroke	mm (in)	149 (5.9)	
Induction		TURBOCHARGED AIR TO AIR CH	ARGE COOLED
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528 G2	
Compression Ratio		16.1:1	
Displacement	L (cu. in)	8.8 (537)	
Moment of Inertia:	kg m² (lb/in²)	2.4031 (8212)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		45	
Engine Weight Dry	kg (lb)	778 (1715)	
Engine Weight Wet	kg (lb)	800 (1764)	
Engine Performa	nce Data	50 Hz	60 Hz
Engine Speed	rpm		1800

Lingine speed		
Gross Engine Power Prime	kW (hp)	211.3 (283)
Gross Engine Power Standby	kW (hp)	233.9 (314)
BMEP Prime	kPa (psi)	1600 (232)
BMEP Standby	kPa (psi)	1771 (256.8)



Fuel System						
Fuel Filter Type:				Replaceable Eler	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US ga	al/hr)				
50 Hz Standby	l/hr (US ga	al/hr)	-			
60 Hz Prime	l/hr (US ga	al/hr)	54.6 (14.4)	49.7 (13.1)	39 (10.3)	28.9 (7.6)
60 Hz Standby	l/hr (US ga	al/hr)	•	54.6 (14.4)	42.5 (11.2)	31.1 (8.2)
(Based on diesel fuel with	a specific gravity	of 0.85 and conform	ing to BS2869, class A2			
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow P	rime	m³/min (cfm)			17.7 (625)	
Combustion Air Flow S	tandby	m³/min (cfm)			18.6 (657)	
Max. Combustion Air In	take Restriction	kPa			6.2 (24.9)	
Cooling System			50	Hz	60 Hz	
Cooling System Capaci	ty	l (US gal)			33.1626 (8	3.8)
Water Pump Type:					Centrifugal	
Heat Rejected to Water	& Lube Oil: Prir	ne kW (Btu/n	nin)		101 (5744)
Heat Rejected to Water	& Lube Oil: Sta	ndby kW (Btu/m	nin)		107 (6085)
Heat Radiation to Room	1*: Prime	kW (Btu/m	nin)		38.1 (2167	7)
Heat Radiation to Roor	n*: Standby	kW (Btu/m	nin)		40.3 (1392	2)
Radiator Fan Load:		kW (hp)			13.2 (17.7))
Radiator Cooling Airflo	w:	m³/min (c	fm)		438 (1546	6)
External Restriction to (Cooling Airflow:	Pa (in H2O)		125 (0.5)	
*: Heat radiated from engi Designed to operate in am Contact your local PEGC Pe conditions.	bient conditions u ower Solutions De	up to 50°C (122°F).	at specific site			
Oil Filter Type:	.cm				Spin-on, Full flow	
Total Oil Capacity:	l (US gal)				39 (10.3)	
Oil Pan Capacity:	l (US gal)				36 (9.5)	
Oil Type:					API CI-4 0W-30	
Oil Cooling Method:					WATER	
Exhaust System			50	Hz	60 Hz	
Maximum Allowable Ba		kPa (in Hg)			10 (3)	
Exhaust Gas Flow: Prim	e	m ³ /min (cfm)			39.7 (1402	2)
Exhaust Gas Flow: Stan	dby	m ³ /min (cfm)			42.1 (1487	7)
Exhaust Gas Temperatu	re: Prime	°C (°F)			431 (808)	
	re: Standby	°C (°F)			444 (831)	



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16.1 (916)

Alternator Physical Data		
No. of Bearings:		1
Insulation Class:		Н
Winding Pitch:		2/3
Winding Code		6
Wires:		12
Ingress Protection Rating:		IP23
Excitation System:		SHUNT
AVR Model:		R250
* dependant on voltage code selected		
Alternator Operating Data		
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2

Alternator	Performance	Data 50 Hz:

%

kW (Btu/min)

kW (Btu/min)

Voltage Code

Total Harmonic content LL/LN:

Radio Interference: Radiant Heat: 50 Hz

Radiant Heat: 60 Hz

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

		480/277 V	380/220 V			440/254 V
Voltage Code		240/139 V				220/127 V
Motor Starting Capability*	kVA	545	369			473
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	3.65	5.12			4.344
	X'd	0.279	0.39			0.332
	X"d	0.14	0.2			0.166

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	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	225	180	250	200	
440/254V	225	180	250	200	
416/240V					
400/230V					
380/220V	197.9	158.3	217.7	174.16	
240/139V	225	180	250	200	
240/120V					
230/115V					
220/127V	225	180	250	200	
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.