

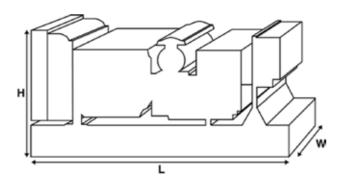
Optional Alternator

Output Ratings

Voltage, Frequency		Prime	Standby
	kVA		
	kW		
480/277V, 60 Hz	kVA	343.8	375
-0072774, 00 HZ	kW	275.04	300

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	2107 (4645)			
Weight (Wet)	kg	2140 (4718)			

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 Performa	ance Data		
Engine Make		Perkins	
Engine Model:		1506D-E88TAG4	
Alternator Make			
Alternator Model:		5114J	
Control Panel:		DSE7410	
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		74 (19.5)
Fuel Consumption Standby	litres (US gal)/hr		81.2 (21.5)

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	O AIR CHARGE 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 Perform	ance Data	50 Hz	60 Hz
Engine Speed	rpm		1800

Engine Speed	rpm	1800
Gross Engine Power Prime	kW (hp)	325 (436)
Gross Engine Power Standby	kW (hp)	358 (480)
BMEP Prime	kPa (psi)	2460 (356.8)
BMEP Standby	kPa (psi)	2710 (393)



Fuel System						
Fuel Filter Type:				Replaceable Ele	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US ga	ıl/hr)				
50 Hz Standby	l/hr (US ga	ıl/hr)	-			
60 Hz Prime	l/hr (US ga	ıl/hr)	81.2 (21.5)	74 (19.5)	55.7 (14.7)	39.5 (10.4)
60 Hz Standby	l/hr (US ga	ıl/hr)	-	81.2 (21.5)	60.4 (16)	42.3 (11.2)
(Based on diesel fuel with	a specific gravity	of 0.85 and conforming	g to BS2869, class A2			
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow P	rime	m ³ /min (cfm)			26.4 (932)	
Combustion Air Flow S	tandby	m³/min (cfm)			26.9 (950)	
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	.8)
Vater Pump Type:				Centrifugal		
Heat Rejected to Water & Lube Oil: Prime kW (Btu/min)		n)		104 (5914)	
Heat Rejected to Water & Lube Oil: Standby kW (Btu/min)		n)		120 (6824)	
Heat Radiation to Room*: Prime kW (Btu/min)		n)		31 (1763)		
Heat Radiation to Room	m*: Standby	kW (Btu/mi	n)	35.6 (762)		
Radiator Fan Load:		kW (hp)		13.2 (17.7))
Radiator Cooling Airflo	w:	m³/min (cfn	n)	438 (15466)		6)
External Restriction to	Cooling Airflow:	Pa (in H2O)		125 (0.5)		
*: Heat radiated from eng Designed to operate in an Contact your local PEGC P conditions.	nbient conditions u ower Solutions Dea		at specific site			
Oil Filter Type:					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)			66.3 (2341	1)
Exhaust Gas Flow: Star	idby	m ³ /min (cfm)			70.3 (2483	3)
Exhaust Gas Temperatu	re: Prime	°C (°F)			476 (889)	
Exhaust Gas Temperatu	re: Standby	°C (°F)			501 (934)	

Wave Form IEC = THF:

Radio Interference: Radiant Heat: 50 Hz

Radiant Heat: 60 Hz

Total Harmonic content LL/LN:

Alternator Performance Data 50 Hz:



2

2

EN61000-6

22.6 (1285)

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

Voltage Code					
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	728	509	587	552	640
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	3.689	5.083			4.39
	X'd	0.287	0.395			0.341
	X"d	0.143	0.197			0.171

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)

%

%

kW (Btu/min)

kW (Btu/min)



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	343.8	275	375	300
440/254V	343.8	275	375	300
416/240V				
400/230V				
380/220V	296.9	237.5	326.6	261.28
240/139V	343.8	275	375	300
240/120V				
230/115V				
220/127V	343.8	275.04	375	300
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.