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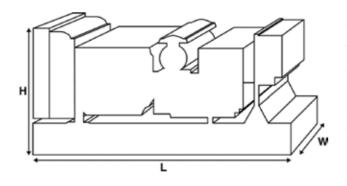
Standard Alternator

Output Ratings		
Voltage, Frequency	Prime	Standby
kVA	250	275
kW	200	220
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	2662 (104.8)				
Width	mm	1071 (42.2)				
Height	mm	1818 (71.6)				
Weight (Dry)	kg	2035 (4486)				
Weight (Wet)	kg	2068 (4559)				

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	nce Data						
Engine Make		Perkins	Perkins				
Engine Model:		1506A-E88TAG3					
Alternator Make							
Alternator Model:		5114H					
Control Panel:		DSE7410					
Base Frame:		Heavy Duty Fabricated S	teel				
Circuit Breaker Type:		3 Pole MCCB	3 Pole MCCB				
Frequency:		50 HZ	60 HZ				
Engine Speed: RPM	rpm	1500					
Fuel Tank Capacity:	litres (US gal)	528 (139.48)					
Fuel Consumption Prime	litres (US gal)/hr	53.8 (14.2)					
Fuel Consumption Standby	litres (US gal)/hr	59.2 (15.6)					
Engine Technical Data							
No. of Cylinders		6					
Alignment		IN LINE					
Cycle		4 STROKE					
Bore mm	(in)	112 (4.4)					
Stroke mm		149 (5.9)	149 (5.9)				
Induction		TURBOCHARGED AIR TO	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 m	² (lb/in²)	2.4031 (8212)					
Voltage	,	24					
Ground		Negative					
Battery Charger Amps		45					
Engine Weight Dry kg (l	b)	778 (1715)					
Engine Weight Wet kg (l		800 (1764)					
Engine Performance I	Data	50 Hz	60 Hz				
Engine Speed	rpm	1500					
Gross Engine Power Prime	kW (hp)	236 (316)					
_	kW (hp)	258 (346)					
BMEP Prime	kPa (psi)	2144 (310.9)					
BMEP Standby kPa (psi)			2344 (339.9)				

Exhaust Gas Temperature: Standby

°C (°F)



Fuel System					Et :		
Fuel Filter Type:				Replaceable			
Recommended Fuel:				Class A2 Die			
Fuel Consumption at			110 % Load	100 % Load		% Load	50 % Load
50 Hz Prime:	/hr (US gal/h	ır)	59.2 (15.6)	53.8 (14.2)		9 (10.8)	29.3 (7.7)
50 Hz Standby	/hr (US gal/h	ır)	-	59.2 (15.6)	44.7	7 (11.8)	31.5 (8.3)
60 Hz Prime	/hr (US gal/h	ır)					
60 Hz Standby	/hr (US gal/h	ır)	-				
(Based on diesel fuel with a speci	fic gravity of	0.85 and conforming t	to BS2869, class	A2			
Air System				50 Hz		60 Hz	
Air Filter Type:					Paper E	lement	
Combustion Air Flow Prime		m³/min (cfm)		14.1 (498)			
Combustion Air Flow Standby	,	m³/min (cfm)		15 (530)			
Max. Combustion Air Intake Re	estriction	kPa		6.2 (24.9)			
Cooling System				50 Hz		60 Hz	
Cooling System Capacity		l (US gal)		30.7 (8.1)			
Water Pump Type:					Centrifug	al	
Heat Rejected to Water & Lube	e Oil: Prime	kW (Btu/min)		110 (6256)			
Heat Rejected to Water & Lub	e Oil: Standl	y kW (Btu/min)		112 (6369)			
Heat Radiation to Room*: Prin	ne	kW (Btu/min)		32.5 (1848)			
Heat Radiation to Room*: Sta	ndby	kW (Btu/min)		34.3 (1951)			
Radiator Fan Load:		kW (hp)		7.7 (10.3)			
Radiator Cooling Airflow:		m³/min (cfm)		329.1 (11624)			
External Restriction to Cooling	g Airflow:	Pa (in H2O)		125 (0.5)			
*: Heat radiated from engine and Designed to operate in ambient of Contact your local PEGC Power So conditions.	onditions up t		specific site				
Lubrication System							
Oil Filter Type:						n, Full flow	
	JS gal)				39 (10.		
	JS gal)				36 (9.5	<u> </u>	
Oil Type:						-4 0W-30	
Oil Cooling Method:					WATE	.R	
Exhaust System				50 Hz		60 Hz	
Maximum Allowable Back Pre	ssure: kF	a (in Hg)		10 (3)			
Exhaust Gas Flow: Prime	m	³/min (cfm)		37.5 (1324)			
Exhaust Gas Flow: Standby	m	³/min (cfm)		40.4 (1427)			
Exhaust Gas Temperature: Prin	me °C	(°F)		537 (999)			
E				EEO (4034)			

558 (1036)



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	ı					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady s	state)	%			+/- 0.5	
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF: %		2				
Total Harmonic content LL/LN: %		2				
Radio Interference:		EN61000-6				
Radiant Heat: 50 Hz kW (Btu/min)		kW (Btu/min)		19.3 (1098)		
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	ance Da	ta 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code				230/115 V		
				230 V		
Motor Starting Capability*	kVA		563	532	491	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		3.823	4.115	4.377	
	X'd		0.265	0.285	0.303	
	X"d		0.169	0.169	0.18	

300

300

300

300

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 300

^{*}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	250	200	275	220
400/230V	250	200	275	220
380/220V	240	192	264	211.2
230/115V	250	200	275	220
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
Output Rutings	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.).