

P375-5

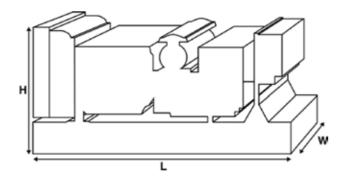
Optional Alternator

Output Ratings						
Voltage, Frequency		Prime	Standby			
	kVA					
	kW					
480/277V, 60 Hz	kVA	337.5	375			
400/2//V, 00 HZ	kW	270	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



Engine Make		Perkins	
Engine Model:		1506A-E88TAG5	
Alternator Make			
Alternator Model:		5114J	
Control Panel:		DSE7410	
Base Frame:		Heavy Duty Fabricated S	teel
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		72.6 (19.2)
Fuel Consumption Standby	litres (US gal)/hr		81.2 (21.5)
Engine Technical Dat No. of Cylinders	ca Comment	6	
Alignment		IN LINE	
Cycle		4 STROKE	
-	m (in)	112 (4.4)	
	n (in)	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	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 Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	JV 112	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 Eler	nent	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)					
50 Hz Standby	l/hr (US gal/hr)		-			
60 Hz Prime	l/hr (US gal/hr)		81.2 (21.5)	72.6 (19.2)	54.8 (14.5)	39 (10.3)
60 Hz Standby	l/hr (US gal/hr)		-	81.2 (21.5)	60.5 (16)	42.4 (11.2)
(Based on diesel fuel with a spe	ecific gravity of 0.8	5 and conforming t	to BS2869, class A2			
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Prime	m	³/min (cfm)			22.1 (780)	
Combustion Air Flow Stand	by m	³/min (cfm)			23.6 (833)	
Max. Combustion Air Intake	Restriction k	Pa			6.2 (24.9)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacity		l (US gal)	30	112	33.1626 (8	8)
Water Pump Type:		t (05 gat)			Centrifugal	,
Heat Rejected to Water & Lu	ıba ∩il: Prima	kW (Btu/min)			130 (7393)	
Heat Rejected to Water & Li		kW (Btu/min)			138 (7848)	
Heat Radiation to Room*: Pr	•	kW (Btu/min)			36 (2047)	
Heat Radiation to Room*: S		kW (Btu/min)			38.6 (933)	
Radiator Fan Load:	candby	kW (hp)			13.2 (17.7)	
Radiator Cooling Airflow:		m³/min (cfm)			438 (15466	
External Restriction to Cooli	ing Airflow	Pa (in H2O)			125 (0.5)	,
*: Heat radiated from engine ar Designed to operate in ambient Contact your local PEGC Power conditions.	nd alternator conditions up to 5 Solutions Dealer fo	0°C (122°F).	specific site		. ,	
Lubrication System					Cain on Full flow	
Oil Filter Type:	(110 apl)				Spin-on, Full flow	
	(US gal)				39 (10.3) 36 (9.5)	
	(US gal)				API CI-4 0W-30	
Oil Type: Oil Cooling Method:					WATER	
Oil Cooling Method.						
Exhaust System			50	Hz	60 Hz	
Maximum Allowable Back P		in Hg)			10 (3)	
Exhaust Gas Flow: Prime	m³/r	nin (cfm)			54.8 (1935	•
Exhaust Gas Flow: Standby		nin (cfm)			59.6 (2105	()
Exhaust Gas Temperature: P	rime °C (°F	-)			489 (912)	
Exhaust Gas Temperature: S	tandby °C (°F	-)			512 (954)	

Alternator Physical Data



EN61000-6

22.6 (1285)

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	1	
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	2

Alternator Performance Data 50 Hz:

kW (Btu/min)

kW (Btu/min)

Voltage Code

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	728	509	587	552	640
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	3.621	5.083			4.309
	X'd	0.281	0.395			0.335
	X"d	0.141	0.197			0.167

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)



Standby

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			
Voltage Code	kVA				

			,	
Voltage Code	kVA	kW	kVA	kW
480/277V	337.5	270	375	300
440/254V	337.5	270	375	300
416/240V				
400/230V				
380/220V	296.9	237.5	326.6	261.28
240/139V	337.5	270	375	300
240/120V				
230/115V				
220/127V	337.5	270	375	300
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.).