

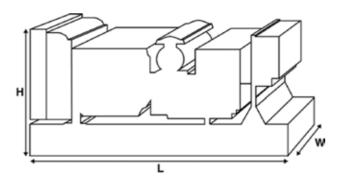
P1375-1

Output Ratings					
Voltage, Frequency	/	Prime	Standby		
	kVA	1250	1375		
	kW	1000	1100		
480/277V, 60 Hz	kVA	1250	1375		
400/2//V, 00 HZ	kW	1000	1100		



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	4788 (188.5)			
Width	mm	1895 (74.6)			
Height	mm	2440 (96.1)			
Weight (Dry)	kg	8884 (19586)			
Weight (Wet)	kg	9080 (20018)			

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 Performan	ce Data		
Engine Make		Perkins	
Engine Model:		4012-46TWG2A	
Alternator Make			
Alternator Model:		8224H	
Control Panel:		E7410	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		Options Available	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	itres (US gal)	N/A (N/A)	
Fuel Consumption Prime	itres (US gal)/hr	258 (68.2)	266 (70.3)
Fuel Consumption Standby	itres (US gal)/hr	284.9 (75.3)	298 (78.7)
Engine Technical Data			
No. of Cylinders		12	
Alignment		VEE	
Cycle		4 STROKE	
Bore mm (ir	1)	160 (6.3)	
Stroke mm (ir		190 (7.5)	
Induction		TURBOCHARGED	
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528	
Compression Ratio		13.0:1	
Displacement L (cu. i	n)	45.8 (2797.5)	
Moment of Inertia: kg m ²	(lb/in²)	19.3 (65951)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry kg (lb)		4440 (9788)	
Engine Weight Wet kg (lb)		4604 (10150)	
Engine Performance Da	ata	50 Hz	60 Hz
	om	1500	1800
	W (hp)	1108 (1486)	1113 (1493)
	/ (hp)	1219 (1635)	1224 (1641)
	Pa (psi)	1933 (280.4)	1619 (234.8)
	Pa (psi)	2127 (308.5)	1780 (258.2)



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)	284.9 (75.3)	258 (68.2)	197 (52)	145 (38.3)
50 Hz Standby	l/hr (US gal/	'hr)	-	284.9 (75.3)	214.4 (56.6)	154.7 (40.9)
60 Hz Prime	l/hr (US gal/	'hr)	298 (78.7)	266 (70.3)		
60 Hz Standby	l/hr (US gal/	'hr)	-	298 (78.7)		
(Based on diesel fuel wit	h a specific gravity of	0.85 and conformin	g to BS2869, class A2			
Air System			50	Hz	60 Hz	
All System					Dania acabia Flamon	
Air Filter Type:					Replaceable Elemen	t
	Prime	m³/min (cfm)	102	(3602)	109 (3849)	
Air Filter Type:		m³/min (cfm) m³/min (cfm)		(3602) (3849)	•	

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	208 (54.9)	196 (51.8)
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	372 (21155)	387 (22008)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	401 (22804)	450 (25591)
Heat Radiation to Room*: Prime	kW (Btu/min)	140.3 (7979)	133 (7564)
Heat Radiation to Room*: Standby	kW (Btu/min)	154.3 (8775)	147 (5175)
Radiator Fan Load:	kW (hp)	38 (51)	51 (68.4)
Radiator Cooling Airflow:	m³/min (cfm)	1350 (47675)	1770 (62507)
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)	250 (1)

^{*:} Heat radiated from engine and alternator

Designed to operate in ambient conditions up to 50°C (122°F).

Contact your local PEGC Power Solutions Dealer for power ratings at specific site conditions.

Lu	brica	tion	Sys	tem
0.11				

Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	l (US gal)	177 (46.8)
Oil Pan Capacity:	l (US gal)	159 (42)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure:	kPa (in Hg)	5 (1.5)		
Exhaust Gas Flow: Prime	m³/min (cfm)	230 (8122)	235 (8299)	
Exhaust Gas Flow: Standby	m³/min (cfm)	230 (8122)	235 (8299)	
Exhaust Gas Temperature: Prime	°C (°F)	422 (792)	430 (806)	
Exhaust Gas Temperature: Standby	°C (°F)	422 (792)	430 (806)	



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					6S	
Wires:					6	
Ingress Protection Rating:					IP23	
Excitation System:					AREP	
AVR Model:					R450M/D350	
dependant on voltage code selected	t					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/L	_N:	%			3.5	
Radio Interference:		E			EN61000-6	
Radio Interference:						
Radio Interference: Radiant Heat: 50 Hz		kW (Btu/min)			65.3 (3714)	
		kW (Btu/min) kW (Btu/min)			65.3 (3714) 57 (3242)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz		kW (Btu/min)			. ,	
Radiant Heat: 50 Hz	ance Da	kW (Btu/min)			57 (3242)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)	415/240 V	400/230 V	. ,	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)	415/240 V	400/230 V	57 (3242)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code		kW (Btu/min)			57 (3242) 380/220 V	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA	kW (Btu/min)	3093	2883	57 (3242) 380/220 V 2613	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	3093 300	2883 300	57 (3242) 380/220 V 2613 300	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd	kW (Btu/min)	3093 300 3.564	2883 300 3.836	57 (3242) 380/220 V 2613 300 4.25	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd	kW (Btu/min)	3093 300 3.564 0.173	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	3093 300 3.564	2883 300 3.836	57 (3242) 380/220 V 2613 300 4.25	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d	kW (Btu/min)	3093 300 3.564 0.173	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min)	3093 300 3.564 0.173	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	300 440/254 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min) Ita 50 Hz:	3093 300 3.564 0.173 0.148	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min) Ita 50 Hz:	3093 300 3.564 0.173 0.148	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code	kVA % Xd X'd X"d	kW (Btu/min) Ita 50 Hz: Ita 60 Hz 480/277 V	3093 300 3.564 0.173 0.148	2883 300 3.836 0.186	57 (3242) 380/220 V 2613 300 4.25 0.206	440/254 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d	kW (Btu/min) Ita 50 Hz: Ita 60 Hz 480/277 V	3093 300 3.564 0.173 0.148	2883 300 3.836 0.186 0.148	380/220 V 2613 300 4.25 0.206 0.164	440/254 V 2906
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d ance Da	kW (Btu/min) ta 50 Hz: ta 60 Hz 480/277 V 3430 300	3093 300 3.564 0.173 0.148 380/220 V	2883 300 3.836 0.186 0.148	380/220 V 2613 300 4.25 0.206 0.164	440/254 V 2906 300

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.4 power factor.

^{**} With optional independant excitation system (PMG / AUX winding)

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Output Ratings 50 Hz						
		Prime	S	tandby		
Voltage Code	kVA	kW	kVA	kW		
415/240V	1250	1000	1375	1100		
400/230V	1250	1000	1375	1100		
380/220V	1250	1000	1375	1100		
230/115V						
220/127V						
220/110V						
200/115V						
240V						
230V						
220V						

Output Ratings 60 Hz						
		Prime	S	tandby		
Voltage Code	kVA	kW	kVA	kW		
480/277V	1250	1000	1375	1100		
440/254V	1250	1000	1375	1100		
416/240V						
400/230V						
380/220V	1250	1000	1375	1100		
240/139V						
240/120V						
230/115V						
220/127V						
220/110V						
208/120V						
240/120						
220/110						





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Dea	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.).