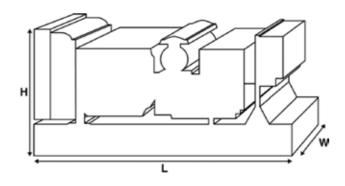


Optional Alternator

Output Ratings				
Voltage, Frequency	Prime	Standby		
kVA	910	1000		
kW	728	800		
kVA				
kW				

Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



-	PEGC	Charles !!
Berkins		
Diesel Power		
LEROY-SOMER		
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Dimension	is and Weights	
Length	mm	4967 (195.6)
Width	mm	2162 (85.1)
Height	mm	2227 (87.7)
Weight (Dry)	kg	6735 (14848)
Weight (Wet)	kg	6820 (15036)

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.

#F(

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 Perform	ance Data		
Engine Make		Perkins	
Engine Model:		4008TAG1A	
Alternator Make			
Alternator Model:		7224N	
Control Panel:		E7410	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		Options Available	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prime	litres (US gal)/hr	192.7 (50.9)	
Fuel Consumption Standby	litres (US gal)/hr	214.9 (56.8)	
Engine Technical Dat	•		
Engine Technical Dat No. of Cylinders	d	8	
Alignment		IN LINE	
Cycle		4 STROKE	
	n (in)	160 (6.3)	
	n (in)	190 (7.5)	
Induction		TURBOCHARGED AIR TO AIR CH	IARGE COOLED
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528	
Compression Ratio		13.6:1	
	cu. in)	30.6 (1864.9)	
· · ·	m² (lb/in²)	15.62 (53376)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		40	
	(lb)	3250 (7165)	
	(lb)	3428 (7557)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	798 (1070)	
Gross Engine Power Standby	kW (hp)	876 (1175)	
BMEP Prime	kPa (psi)	2089 (303)	
BMEP Standby	kPa (psi)	2293 (332.6)	



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 gal/hr)	214.9 (56.8)	192.7 (50.9)	142.4 (37.6)	100 (26.4)
50 Hz Standby	l/hr (US gal/hr)	-	214.9 (56.8)	156.5 (41.3)	107.8 (28.5)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of $0.85\ \text{and}\ \text{conforming}\ \text{to}\ BS2869,\ \text{class}\ A2$

Air System		50 Hz	60 Hz	
Air Filter Type:			Replaceable Element	
Combustion Air Flow Prime	m³/min (cfm)	69.4 (2451)		
Combustion Air Flow Standby	m³/min (cfm)	74 (2613)		
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	123 (32.5)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	e kW (Btu/min)	300 (17061)		
Heat Rejected to Water & Lube Oil: Stand	dby kW (Btu/min)	313 (17800)		
Heat Radiation to Room*: Prime	kW (Btu/min)	108.6 (6176)		
Heat Radiation to Room*: Standby	kW (Btu/min)	133.5 (7592)		
Radiator Fan Load:	kW (hp)	27 (36.2)		
Radiator Cooling Airflow:	m ³ /min (cfm)	870 (30724)		
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)		
*: Heat radiated from engine and alternator Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions.		: site		
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale		: site		
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions.		: site	Spin-On, Full Flow	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions.		: site	Spin-On, Full Flow 166 (43.9)	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type:		: site	the second se	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal)		: site	166 (43.9)	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal)		: site	166 (43.9) 153 (40.4)	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Dil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type:		50 Hz	166 (43.9) 153 (40.4) API CG4 15W-40	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: Exhaust System			166 (43.9) 153 (40.4) API CG4 15W-40 WATER	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions.	er for power ratings at specific	50 Hz	166 (43.9) 153 (40.4) API CG4 15W-40 WATER	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: oil Cooling Method: Exhaust System Maximum Allowable Back Pressure: Maximum Allowable Back Pressure:	er for power ratings at specific kPa (in Hg)	50 Hz 9.3 (2.7)	166 (43.9) 153 (40.4) API CG4 15W-40 WATER	
Designed to operate in ambient conditions up Contact your local PEGC Power Solutions Deale conditions. Lubrication System Oil Filter Type: Total Oil Capacity: l (US gal) Oil Pan Capacity: l (US gal) Oil Type: Oil Cooling Method: Exhaust System Maximum Allowable Back Pressure: P Exhaust Gas Flow: Prime r Exhaust Gas Flow: Standby r	er for power ratings at specific kPa (in Hg) m ³ /min (cfm)	50 Hz 9.3 (2.7) 183 (6463)	166 (43.9) 153 (40.4) API CG4 15W-40 WATER	



Alternator Physical	Data					
No. of Bearings:					1	
nsulation 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 selecte	d					
Alternator Operatir	ng Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/I	LN:	%			4	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)			42.5 (2417)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance Da	nta 50 Hz:	445 40 AV	(00./020.)/	200/200 \/	
Alternator Perform	ance Da	nta 50 Hz:	415/240 V	400/230 V	380/220 V	
Voltage Code	ance Da	nta 50 Hz:	415/240 V 2832	400/230 V 2646	380/220 V 2406	
Voltage Code Motor Starting Capability*		nta 50 Hz:				300
	kVA	nta 50 Hz:	2832	2646	2406	300
Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	nta 50 Hz:	2832 300	2646 300	2406 300	300
Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	ata 50 Hz:	2832 300 2.758	2646 300 2.969	2406 300 3.29	300
Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d		2832 300 2.758 0.132	2646 300 2.969 0.142	2406 300 3.29 0.157	300
Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d		2832 300 2.758 0.132	2646 300 2.969 0.142	2406 300 3.29 0.157	300
Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Perform a	kVA % Xd X'd X"d		2832 300 2.758 0.132	2646 300 2.969 0.142	2406 300 3.29 0.157	300
Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performation Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d	nta 60 Hz	2832 300 2.758 0.132 0.114	2646 300 2.969 0.142 0.114	2406 300 3.29 0.157 0.126	
Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d ance Da		2832 300 2.758 0.132	2646 300 2.969 0.142	2406 300 3.29 0.157	300
Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X'd Ance Da	nta 60 Hz	2832 300 2.758 0.132 0.114	2646 300 2.969 0.142 0.114	2406 300 3.29 0.157 0.126	
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 kVA %	nta 60 Hz	2832 300 2.758 0.132 0.114	2646 300 2.969 0.142 0.114	2406 300 3.29 0.157 0.126	

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



Output Ratings 50 Hz					
		Prime	S	tandby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	910	728	1000	800	
400/230V	910	728	1000	800	
380/220V	910	728	1000	800	
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					
440/254V					
416/240V					
400/230V					
380/220V					
240/139V					
240/120V					
230/115V					
220/127V					
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.