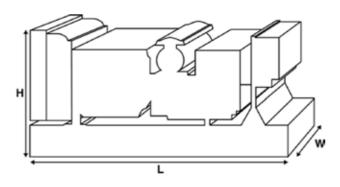


Output Ratings					
Voltage, Frequency		Prime	Standby		
	kVA	16.5	18		
	kW	13.2	14.4		
220/127 V, 60 Hz	kVA	20	22		
220/12/ 1, 00 112	kW	16	17.6		



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	1550 (61)				
Width	mm	620 (24.4)				
Height	mm	1020 (40.2)				
Weight (Dry)	kg	365 (805)				
Weight (Wet)	kg	372 (820)				

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:		404D-22G1	
Alternator Make			
Alternator Model:		10040	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated S	iteel
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)		
Fuel Consumption Prime	litres (US gal)/hr	4.4 (1.2)	5.3 (1.4)
Fuel Consumption Standby	litres (US gal)/hr	4.8 (1.3)	5.8 (1.5)
Engine Technical Dat	a		
No. of Cylinders		4	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore mn	n (in)	84 (3.3)	
Stroke mn	n (in)	100 (3.9)	
Induction		NATURALLY ASPIRATED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528	
Compression Ratio		23.3:1	
Displacement L (d	cu. in)	2.2 (135.2)	
Moment of Inertia: kg	m² (lb/in²)	2.724 (9308)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry kg	(lb)	242 (534)	
Engine Weight Wet kg	(lb)	251 (554)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	16.2 (22)	19.4 (26)
Gross Engine Power Standby	kW (hp)	18 (24)	21.5 (29)
BMEP Prime	kPa (psi)	585 (84.8)	583 (84.6)
BMEP Standby	kPa (psi)	649 (94.2)	647 (93.8)



41.4 (1462)

125 (0.5)

Fuel System						
Fuel Filter Type:				Replaceable Elei	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/h	nr)	4.8 (1.3)	4.4 (1.2)	3.4 (0.9)	2.6 (0.7)
50 Hz Standby	l/hr (US gal/h	nr)	-	4.8 (1.3)	3.7 (1)	2.7 (0.7)
60 Hz Prime	l/hr (US gal/h	nr)	5.8 (1.5)	5.3 (1.4)	4.1 (1.1)	3.2 (0.8)
60 Hz Standby	l/hr (US gal/h	nr)	-	5.8 (1.5)	4.5 (1.2)	3.3 (0.9)
Air Filter Type:					Replaceable Element	t
Air System			50	Hz	60 Hz	
Combustion Air Flow Prime		m³/min (cfm)	1.5 (51)	1.7 (61)	
Combustion Air Flow Standb		m³/min (cfm)	1.5 (1.7 (61)	
Max. Combustion Air Intake R	-	kPa	3 (12	<u>, </u>	3 (12)	
max. Combustion All intake k	lesti iction	rra	3 (12	-)	3 (12)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacity		l (US gal)	6.5 (1.7)	6.5 (1.7)	
Water Pump Type:					Centrifugal	
Heat Rejected to Water & Lub	oe Oil: Prime	kW (Btu/min	13.7	(779)	15.5 (881)	
•	he Oil: Stand	by kW (Btu/min	15.2	(864)	17.2 (978)	
Heat Rejected to Water & Lul	oc on. stand					
•		kW (Btu/min	5 (28	34)	5.7 (324)	
Heat Rejected to Water & Lul	me	kW (Btu/min kW (Btu/min	<u> </u>	·	5.7 (324) 6.3 (185)	

External Restriction to Cooling Airflow:
*: 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.

m³/min (cfm)

Pa (in H2O)

Lubrication System

Radiator Cooling Airflow:

Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	l (US gal)	10.6 (2.8)
Oil Pan Capacity:	l (US gal)	8.9 (2.4)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		N/A

33 (1165) 125 (0.5)

Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure:	kPa (in Hg)	10.2 (3)	10.2 (3)	
Exhaust Gas Flow: Prime	m³/min (cfm)	3 (105)	3.9 (138)	
Exhaust Gas Flow: Standby	m³/min (cfm)	3.2 (114)	4.3 (151)	
Exhaust Gas Temperature: Prime	°C (°F)	364 (687)	396 (745)	
Exhaust Gas Temperature: Standby	°C (°F)	413 (776)	459 (858)	



Alternator Physical	Data						
No. of Bearings:					1		
Insulation Class:					Н		
Winding Pitch:					2/3		
Winding Code					6S/6P		
Wires:					4		
Ingress Protection Rating:					IP23		
Excitation System:					SHUNT		
AVR Model:					R120		
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/L	.N:	%			3.5		
Radio Interference:					EN61000-6		
Radio interference:		kW (Btu/min)			2.7 (45.4)	2.7 (154)	
Radiant Heat: 50 Hz		kW (Btu/min)			2.7 (154)		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)			3.1 (176)		
Radiant Heat: 50 Hz	ance Da	kW (Btu/min)	415/240 V	400/230 V	, ,		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa	ance Da	kW (Btu/min)	415/240 V 28	400/230 V 26	3.1 (176)		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code		kW (Btu/min)			3.1 (176) 380/220 V	0	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA	kW (Btu/min)	28	26	3.1 (176) 380/220 V	0	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	28 0	26 0	3.1 (176) 380/220 V 24 0	0	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	28 0 1.954	26 0 2.104	3.1 (176) 380/220 V 24 0 2.331	0	
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)	28 0 1.954 0.172	26 0 2.104 0.186	3.1 (176) 380/220 V 24 0 2.331 0.206	0	
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)	28 0 1.954 0.172	26 0 2.104 0.186	3.1 (176) 380/220 V 24 0 2.331 0.206	0 220/127 V	
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)	28 0 1.954 0.172	26 0 2.104 0.186	3.1 (176) 380/220 V 24 0 2.331 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 Motor Starting Capability*	kVA % Xd X'd X"d	kW (Btu/min)	28 0 1.954 0.172	26 0 2.104 0.186	3.1 (176) 380/220 V 24 0 2.331 0.206	220/127 V	
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 Ance Da	kW (Btu/min)	28 0 1.954 0.172 0.093	26 0 2.104 0.186 0.093	3.1 (176) 380/220 V 24 0 2.331 0.206 0.103	220/127 V 26	
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)	28 0 1.954 0.172 0.093	26 0 2.104 0.186 0.093	3.1 (176) 380/220 V 24 0 2.331 0.206 0.103	220/127 V 26 0	

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)

220/110V

208/120V

240/120220/110



Output Ratings	50 Hz				
		Prime	Standby		
Voltage Code	kVA	kW	kVA	kW	
415/240V	16.5	13.2	18	14.4	
400/230V	16.5	13.2	18	14.4	
380/220V	16.5	13.2	18	14.4	
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					





De	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.).