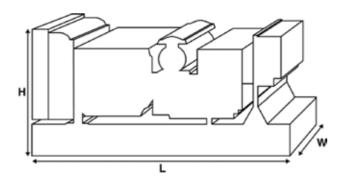


Output Ratings

Voltage, Frequency		Prime	Standby
	kVA	20	22
	kW	16	17.6
	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	1550 (61)				
Width	mm	620 (24.4)				
Height	mm	1020 (40.2)				
Weight (Dry)	kg	378 (833)				
Weight (Wet)	kg	385 (849)				

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

BMEP Standby

kPa (psi)



Ratings and Perform	ance Data		
Engine Make		Perkins	
Engine Model:		404A-22G1	
Alternator Make			
Alternator Model:		10060	
Control Panel:		100	
Base Frame:	Base Frame:		ગ
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)		
Fuel Consumption Prime	litres (US gal)/hr	5.4 (1.4)	
Fuel Consumption Standby	litres (US gal)/hr	6.1 (1.6)	
Fueine Technical Def			
Engine Technical Da	a	1	
No. of Cylinders		4	
Alignment		IN LINE	
Cycle		4 STROKE	
	m (in)	84 (3.3)	
	m (in)	100 (3.9)	
Induction			
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528	
Compression Ratio		23.3:1	
	(cu. in)	2.2 (135.2)	
	m² (lb/in²)	2.99 (10217)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
	(lb)	242 (534)	
Engine Weight Wet kg	(lb)	251 (554)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	18.7 (25)	
Gross Engine Power Standby		20.6 (28)	
BMEP Prime	kPa (psi)	675 (97.9)	

743 (107.8)



Fuel System								
Fuel Filter Type:					Replaceable E	lement		
Recommended Fuel:					Class A2 Diese	el		
Fuel Consumption at			110 % Load	I	100 % Load	75 % L	.oad	50 % Load
50 Hz Prime:	l/hr (US gal/h	r)	6.1 (1.6)		5.4 (1.4)	3.9 (1)		2.9 (0.8)
50 Hz Standby	l/hr (US gal/h	r)			6.1 (1.6)	4.3 (1.	1)	3.1 (0.8)
60 Hz Prime	l/hr (US gal/h	r)						
60 Hz Standby	l/hr (US gal/h	r)	-					
(Based on diesel fuel with a s	pecific gravity of (.84 and conforming	to BS2869, clas	ss A2				
Air System				50 Hz			60 Hz	
Air Filter Type:						Replaceab	le Element	
Combustion Air Flow Prim	е	m³/min (cfm)		1.5 (51)				
Combustion Air Flow Stan	dby	m³/min (cfm)		1.5 (51)				
Max. Combustion Air Intak	e Restriction	kPa		6.4 (25.7)				
Cooling System				50 Hz			60 Hz	
Cooling System Capacity		l (US gal)		7 (1.8)				
Water Pump Type:						Centrifugal		
Heat Rejected to Water & I	Lube Oil: Prime	kW (Btu/min))	17 (967)				
Heat Rejected to Water &		y kW (Btu/min))	19.6 (111	5)			
Heat Radiation to Room*:	Prime	kW (Btu/min))	5.7 (324)				
Heat Radiation to Room*:	Standby	kW (Btu/min))	7.1 (404)				
Radiator Fan Load:		kW (hp)		0.2 (0.3)				
Radiator Cooling Airflow:		m ³ /min (cfm))	33 (1165)				
External Restriction to Coo		Pa (in H2O)		125 (0.5)				
*: Heat radiated from engine a Designed to operate in ambie Contact your local PEGC Powe conditions.	nt conditions up to r Solutions Dealer		specific site					
Lubrication Syster 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		
Exhaust System				50 Hz			60 Hz	
Maximum Allowable Back	Pressure: kP	a (in Hg)		10.2 (3)				
Exhaust Gas Flow: Prime		/min (cfm)		3.6 (129)				
Exhaust Gas Flow: Standby		/min (cfm)		3.9 (139)				
Exhaust Gas Temperature:		(°F)		445 (833)				
Exhaust Gas Temperature:		(°F)		505 (941)				



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					6S	
Wires:					4	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					R120	
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	_N:	%			3.5	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)			2.7 (154)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa			415/240 V	400/230 V	380/220 V	
Motor Starting Capability*	kVA		39	37	34	
Short Circuit Capacity**	%		0	0	0	0
						•
Reactances	Xd		1.8	1.938	2.147	Ū
Reactances	Xd X'd		1.8 0.144	1.938 0.155	2.147 0.172	0
Reactances						Ŭ
Reactances Alternator Perform	X'd X"d	ta 60 Hz	0.144	0.155	0.172	
	X'd X"d	ita 60 Hz	0.144	0.155	0.172	
Alternator Performa	X'd X"d	ita 60 Hz	0.144	0.155	0.172	37
Alternator Perform Voltage Code Motor Starting Capability*	X'd X"d	ita 60 Hz	0.144	0.155	0.172	
Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	X'd X"d ance Da		0.144 0.078	0.155 0.078	0.172 0.086	37
Alternator Perform	X'd X"d ance Da kVA %		0.144 0.078	0.155 0.078	0.172 0.086	37 0

*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	20	16	22	17.6		
400/230V	20	16	22	17.6		
380/220V	20	16	22	17.6		
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.