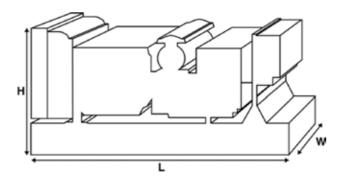


Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	15	16.5			
kW	15	16.5			
kVA					
kW					



### Ratings at 1 power factor.

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



Dimension	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



Ratings and Performa	ance Data					
Engine Make		Perkins				
Engine Model:		404A-22G1				
Alternator Make						
Alternator Model:		10060				
Control Panel:		100				
Base Frame:		Heavy Duty Fabricated Steel				
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 (1.3)				
Fuel Consumption Standby	litres (US gal)/hr	5.6 (1.5)				
Engine Technical Dat	3					
No. of Cylinders	a	4				
Alignment		IN LINE				
Cycle		4 STROKE				
	n (in)	84 (3.3)				
	n (in)	100 (3.9)				
Induction	()	NATURALLY ASPIRATED				
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)				
	(lb)	251 (554)				
<b>Engine Performance</b>	Data	50 Hz	60 Hz			
Engine Speed	rpm	1500	VV 112			
Gross Engine Power Prime	kW (hp)	18.7 (25)				
Gross Engine Power Standby	kW (hp)	20.6 (28)				
BMEP Prime	kPa (psi)	675 (97.9)				
BMEP Standby kPa (psi)		743 (107.8)				

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby



Fuel System					D 1 11 E		
Fuel Filter Type:					Replaceable Element		
Recommended Fuel:			4400/1		Class A2 Diese		500/1
Fuel Consumption at			110 % Load	1	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)		5.6 (1.5)		5 (1.3)	3.7 (1)	2.8 (0.7)
50 Hz Standby	l/hr (US gal/hr)		•		5.6 (1.5)	4 (1.1)	3 (0.8)
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 0.8	34 and conforming	to BS2869, clas	ss A2			
Air System				50 Hz		60 Hz	
Air Filter Type:						Replaceable Element	t
Combustion Air Flow Prin	me r	n³/min (cfm)		1.5 (51)			
Combustion Air Flow Sta	ndby r	n³/min (cfm)		1.5 (51)			
Max. Combustion Air Inta	ke Restriction k	Pa		6.4 (25.7)	)		
Cooling System				50 Hz		60 Hz	
Cooling System Capacity	,	l (US gal)		7 (1.8)		3333	
Water Pump Type:		· 3 /				Centrifugal	
Heat Rejected to Water &	: Lube Oil: Prime	kW (Btu/min)		17 (967)			
Heat Rejected to Water 8	t Lube Oil: Standby	kW (Btu/min)		19.6 (111	15)		
Heat Radiation to Room*:	: Prime	kW (Btu/min)		5.6 (318)			
Heat Radiation to Room*	: Standby	kW (Btu/min)		6.9 (392)			
Radiator Fan Load:		kW (hp)		0.3 (0.4)			
Radiator Cooling Airflow	:	m³/min (cfm)		33 (1165	)		
External Restriction to Co	ooling Airflow:	Pa (in H2O)		125 (0.5)			
*: Heat radiated from engine Designed to operate in ambi Contact your local PEGC Pow conditions.	ent conditions up to		specific site				
<b>Lubrication Syste</b>	em						
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	
<b>Exhaust System</b>				50 Hz		60 Hz	
Maximum Allowable Back	k Pressure: kPa	(in Hg)		10 (3)			
Exhaust Gas Flow: Prime	m³/	min (cfm)		3.3 (117)			

3.6 (127)

355 (672)

383 (721)

m³/min (cfm)

°C (°F)

°C (°F)



<b>Alternator Physical</b>	Data						
No. of Bearings:					1		
Insulation Class:					Н		
Winding Pitch:					2/3		
Winding Code					M		
Wires:					3		
Ingress Protection Rating:					IP23		
Excitation System:					SHUNT		
AVR Model:					R121		
dependant on voltage code selected	ı						
<b>Alternator Operatin</b>	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:					EN61000-6		
Radiant Heat: 50 Hz		kW (Btu/min)			2.5 (142)		
Radiant Heat: 60 Hz		kW (Btu/min)					
Alternator Performa	nce Da	ata 50 Hz:					
Alternator i errorini	ince be	ata 50 Hzi	240 V	230 V	220 V		
Voltage Code			Z-10 ¥	250 V	220 V		
voltage code							
Motor Starting Capability*	kVA		41	39	37		
Short Circuit Capacity**	%		0	0	0	0	
Reactances	Xd		1.46	1.59	1.74		
	X'd		0.21	0.23	0.25		
	X"d		0.116	0.116	0.127		
<b>Alternator Performa</b>							
Alternator Ferrorina	nce Da	ata 60 Hz					
	ance Da	ata 60 Hz					
Voltage Code	ance Da	ata 60 Hz					
	kVA	ata 60 Hz	32	37	34		
Voltage Code		ata 60 Hz	32 0	37 0	34 0	0	
Voltage Code  Motor Starting Capability*	kVA					0	

Reactances shown are applicable to prime ratings.

X"d

<sup>\*</sup>Based on 30% voltage dip at 0.9 power factor.

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)



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	15	15	16.5	16.5	
230V	15	15	16.5	16.5	
220V	15	15	16.5	16.5	
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 <a href="https://www.pegcpowersolutions.com">www.pegcpowersolutions.com</a>.

PEGC Power Solutions is a trading name of Public Electric Generator Concern (PEGC Power Solutions & Engineering Services (Pvt) Ltd.).