

# P55-6S

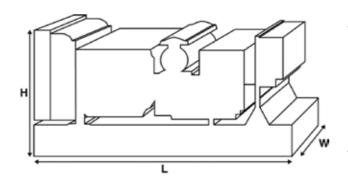
#### Standard Alternator

Output Ratings						
Voltage, Frequency	Prime	Standby				
kVA	50	55				
kW	50	55				
kVA						
kW						



#### Ratings at 1 power factor.

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



Dimensions and Weights						
Length	mm	1870 (73.6)				
Width	mm	840 (33.1)				
Height	mm	1333 (52.5)				
Weight (Dry)	kg	936 (2064)				
Weight (Wet)	kg	949 (2092)				

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 Perforn	nance Data		
Engine Make		Perkins	
Engine Model:		1104D-44TG2/3	
Alternator Make			
Alternator Model:		30030-M	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated S	Steel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	180 (47.55)	
Fuel Consumption Prime	litres (US gal)/hr	17.1 (4.5)	
Fuel Consumption Standby	litres (US gal)/hr	19.1 (5)	
Engine Technical Da	ta		
No. of Cylinders		4	
Alignment		IN LINE	
Cycle		4 STROKE	
	nm (in)	105 (4.1)	
	nm (in)	127 (5)	
Induction	· /	TURBOCHARGED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		18.23:1	
Displacement L	(cu. in)	4.4 (268.5)	
Moment of Inertia: kg	g m² (lb/in²)	1.14 (3896)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry k	g (lb)	401 (884)	
Engine Weight Wet k	g (lb)	408 (899)	
Engine Performance	e Data	50 Hz	60 Hz
Engine Speed	rpm	1500	00112
Gross Engine Power Prime	kW (hp)	56.6 (76)	
Gross Engine Power Standby		61 (82)	
BMEP Prime	kPa (psi)	1029 (149.3)	
BMEP Standby	kPa (psi)	1109 (160.9)	



Fuel System								
Fuel Filter Type:					Replaceable I	Element		
Recommended Fuel:					Class A2 Diese	el		
Fuel Consumption at			110 % Load		100 % Load	75 %	6 Load	50 % Load
50 Hz Prime:	I/hr (US gal/hr)		19.1 (5)		17.1 (4.5)	12.5	(3.3)	8.5 (2.2)
50 Hz Standby	l/hr (US gal/hr)		-		19.1 (5)	13.9	(3.7)	9.3 (2.5)
60 Hz Prime	I/hr (US gal/hr)							
60 Hz Standby	l/hr (US gal/hr)		-					
(Based on diesel fuel with a sp	pecific gravity of 0.84	and conforming to	BS2869 class	A2,EN590				
Air System				50 Hz			60 Hz	
Air Filter Type:						Replace	able Element	
Combustion Air Flow Prime	e m	<sup>3</sup> /min (cfm)		4.7 (166)				
Combustion Air Flow Stan		<sup>3</sup> /min (cfm)		4.9 (173)				
Max. Combustion Air Intak	e Restriction kl	Pa		6 (24.1)				
Cooling System				50 Hz			60 Hz	
Cooling System Capacity		I (US gal)		16.5 (4.4)				
Water Pump Type:						Centrifug	al	
Heat Rejected to Water & L	ube Oil: Prime	kW (Btu/min)		47 (2673)				
Heat Rejected to Water & L		kW (Btu/min)		46.8 (266	1)			
Heat Radiation to Room*: I	Prime	kW (Btu/min)		13.9 (790)				
Heat Radiation to Room*:	Standby	kW (Btu/min)		14.5 (825)	)			
Radiator Fan Load:		kW (hp)		1 (1.3)				
Radiator Cooling Airflow:		m³/min (cfm)		84 (2966)				
External Restriction to Cod	oling Airflow:	Pa (in H2O)		125 (0.5)				
*: Heat radiated from engine a Designed to operate in ambie Contact your local PEGC Pow conditions. Lubrication System	nt conditions up to 5 ver Solutions Dealer		at specific site					
Oil Filter Type:						Spin-O	n, Full Flow	
Total Oil Capacity:	I (US gal)					8 (2.1)		
Oil Pan Capacity:	I (US gal)					7 (1.8)		
Oil Type:						API CH	4 15W-40	
Oil Cooling Method:						WATE	R	
Exhaust System				50 Hz			60 Hz	
Maximum Allowable Back F	Pressure: kPa	(in Hg)		12 (3.5)				
Exhaust Gas Flow: Prime	m³/n	nin (cfm)		11.2 (396)				
Exhaust Gas Flow: Standby	/ m³/n	nin (cfm)		12.3 (435				
Exhaust Gas Temperature:	Prime °C (°I	=)		570 (1058	3)			
Exhaust Gas Temperature:	Standby °C (°l	-\		627 (1161	1			



	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	d					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					100	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/L	-N:	%		3.5		
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)	5.2 (296)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	ance Da	ita 50 Hz:				
Alternator Performa	ance Da	ita 50 Hz:	240 V	230 V	220 V	
Alternator Performa	ance Da	ta 50 Hz:	240 V	230 V	220 V	
Voltage Code	kVA	ta 50 Hz:	240 V 145	230 V 136	220 V	
Voltage Code  Motor Starting Capability*		ta 50 Hz:				270
Voltage Code	kVA	ta 50 Hz:	145	136	128	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity**	kVA %	ta 50 Hz:	145 270	136 270	128 270	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	ta 50 Hz:	145 270 1.603	136 270 1.746	128 270 1.908	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d		145 270 1.603 0.135	136 270 1.746 0.147	128 270 1.908 0.161	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d		145 270 1.603 0.135	136 270 1.746 0.147	128 270 1.908 0.161	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity** Reactances  Alternator Performa  Voltage Code	kVA % Xd X'd X"d		145 270 1.603 0.135	136 270 1.746 0.147	128 270 1.908 0.161	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity** Reactances  Alternator Performa  Voltage Code  Motor Starting Capability*	kVA % Xd X'd X"d		145 270 1.603 0.135 0.088	136 270 1.746 0.147 0.088	128 270 1.908 0.161 0.096	270
Voltage Code  Motor Starting Capability* Short Circuit Capacity** Reactances  Alternator Performa  Voltage Code	kVA % Xd X'd X"d	nta 60 Hz	145 270 1.603 0.135 0.088	136 270 1.746 0.147 0.088	128 270 1.908 0.161 0.096	

0

0

0

X"d

Reactances shown are applicable to prime ratings.

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

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

## P55-6S



Output Ratings	50 Hz					
		Prime				
Voltage Code	kVA	kW	kVA	kW		
415/240V						
400/230V						
380/220V						
230/115V						
220/127V						
220/110V						
200/115V						
240V	50	50	55	55		
230V	50	50	55	55		
220V	50	50	55	55		
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						



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## **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 standbyapplications 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 24months 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>.

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