

P660-3

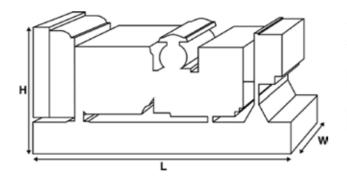
Standard Alternator

Output Ratings		
Voltage, Frequency	Prime	Standby
kVA	600	660
kW	480	528
kVA		
kW		



Ratings at 0.8 power factor.

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



Dimension	s and Weights	
Length	mm	3900 (153.5)
Width	mm	1461 (57.5)
Height	mm	2156 (84.9)
Weight (Dry)	kg	4274 (9423)
Weight (Wet)	kg	4342 (9572)

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:



Ratings and Performance Data				
Engine Make	Perkins			
Engine Model:	2806A-E18TAG1A			
Alternator Make				
Alternator Model:	33A500			
Control Panel:	100			
Base Frame:	Heavy Duty Fabricated Steel			
Circuit Breaker Type:	3 Pole MCCB			
Frequency:	50 HZ 60 HZ			
Engine Speed: RPM rpm	1500			
Fuel Tank Capacity: litres (US gal)	1132 (299.04)			
Fuel Consumption Prime litres (US gal)/hr	118.5 (31.3)			
Fuel Consumption Standby litres (US gal)/hr	131.1 (34.6)			
Engine Technical Data				
No. of Cylinders	6			
Alignment	IN LINE			
Cycle	4 STROKE			
Bore mm (in)	145 (5.7)			
Stroke mm (in)	183 (7.2)			
Induction	TURBOCHARGED AIR TO AIR CHARGE COOLED			
Cooling Method	WATER			
Governing Type	ELECTRONIC			
Governing Class	ISO 8528 G2			
Compression Ratio	14.5:1			
Displacement L (cu. in)	18.1 (1104.5)			
Moment of Inertia: kg m² (lb/in²)	7.05 (24091)			
Voltage	24			
Ground	Negative			
Battery Charger Amps	70			
Engine Weight Dry kg (lb)	2050 (4519)			
Engine Weight Wet kg (lb)	2158 (4758)			
Engine Performance Data	50 Hz 60 Hz			
Engine Speed rpm	1500			
Gross Engine Power Prime kW (hp)	539.7 (724)			
Gross Engine Power Standby kW (hp)	592.7 (795)			
BMEP Prime kPa (psi)	2381 (345.4)			
BMEP Standby kPa (psi)	2615 (379.3)			



Fuel Filter Type:			Eco Replaceable	Element	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	131.1 (34.6)	118.5 (31.3)	88.7 (23.4)	61.1 (16.1)
50 Hz Standby	l/hr (US gal/hr)	•	131.1 (34.6)	97.3 (25.7)	66.5 (17.6)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

Air System		50 Hz	60 Hz	
Air Filter Type:			Non Canister	
Combustion Air Flow Prime	m³/min (cfm)	34 (1201)		
Combustion Air Flow Standby	m³/min (cfm)	36 (1271)		
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)		

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	68.5 (18.1)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	208 (11829)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	222 (12625)		
Heat Radiation to Room*: Prime	kW (Btu/min)	65.3 (3714)		
Heat Radiation to Room*: Standby	kW (Btu/min)	72.1 (4100)		
Radiator Fan Load:	kW (hp)	9 (12.1)		
Radiator Cooling Airflow:	m³/min (cfm)	373.2 (13179)		
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)		

*: 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.

Lubrication System

Oil Filter Type:		Eco, Full flow
Total Oil Capacity:	l (US gal)	62 (16.4)
Oil Pan Capacity:	l (US gal)	53 (14)
Oil Type:		API CH4 / CI4
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure:	kPa (in Hg)	6.9 (2)		
Exhaust Gas Flow: Prime	m³/min (cfm)	96 (3390)		
Exhaust Gas Flow: Standby	m³/min (cfm)	104 (3673)		
Exhaust Gas Temperature: Prime	°C (°F)	568 (1054)		
Exhaust Gas Temperature: Standby	°C (°F)	571 (1060)		



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					R16	
Wires:					6	
Ingress Protection Rating:					IP21	
Excitation System:					SHUNT	
AVR Model:					GTR7-TH4E	
dependant on voltage code selected	d					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/L	-N:	%			3	
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)			30.1 (1712)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	ance Da	nta 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
				230 V		
Motor Starting Capability*	kVA		1503	1399	1258	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		2.446	2.629	2.883	
	X'd		0.115	0.124	0.136	
	X"d		0.098	0.098	0.108	
	ΛU		0.070			
	ΛÜ		0.070			
Alternator Performa		ata 60 Hz	0.070			
		ata 60 Hz	0.070			
Alternator Performa Voltage Code		ata 60 Hz	0.070			
Voltage Code Motor Starting Capability*						
Voltage Code	ance Da	ata 60 Hz	300	300	300	300
Voltage Code Motor Starting Capability*	ance Da					300

Reactances shown are applicable to prime ratings.

X"d

^{*}Based on 30% voltage dip at 0.4 power factor.

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

220/110



	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	600	480	660	528	
400/230V	600	480	660	528	
380/220V	593.8	475.04	660	528	
230/115V	600	480	660	528	
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Voltage Code	kVA	Prime	kVA	Standby kW	
		Prime		Standby	
voltage code	NVA	L/ V V	NVA	IVAA.	
490/277\/					
440/254V					
440/254V 416/240V					
440/254V 416/240V 400/230V					
480/277V 440/254V 416/240V 400/230V 380/220V 240/139V					
440/254V 416/240V 400/230V 380/220V 240/139V					
440/254V 416/240V 400/230V 380/220V 240/139V 240/120V					
440/254V 416/240V 400/230V 380/220V 240/139V 240/120V 230/115V					
440/254V 416/240V 400/230V 380/220V 240/139V 240/120V 230/115V 220/127V					
440/254V 416/240V 400/230V 380/220V 240/139V 240/120V 230/115V					





P660-3

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.).