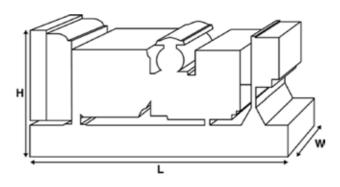


Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	160	175			
kW	128	140			
kVA					
kW					



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	2450 (96.5)				
Width	mm	1010 (39.8)				
Height	mm	1554 (61.2)				
Weight (Dry)	kg	1493 (3291)				
Weight (Wet)	kg	1514 (3338)				

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 Perform	ance Data						
Engine Make		Perkins	Perkins				
Engine Model:		1106D-E70TAG3					
Alternator Make							
Alternator Model:		30110					
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)	327 (86.38)					
Fuel Consumption Prime	litres (US gal)/hr	36.9 (9.7)					
Fuel Consumption Standby	litres (US gal)/hr	39.7 (10.5)					
Engine Technical Dat	a						
No. of Cylinders		6					
Alignment		IN LINE					
Cycle		4 STROKE					
Bore mr	n (in)	105 (4.1)					
croke mm (in)		135 (5.3)					
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED				
Cooling Method		WATER					
Governing Type		ELECTRONIC					
Governing Class		ISO 8528 G2					
Compression Ratio		16.8:1					
	cu. in)	7 (427.8)					
Moment of Inertia: kg	m² (lb/in²)	1.53 (5228)					
Voltage	,	12					
Ground		Negative					
Battery Charger Amps		65					
	(lb)	788 (1737)					
	(lb)	822 (1812)					
Engine Performance Data		50 Hz	60 Hz				
Engine Speed	rpm	1500					
Gross Engine Power Prime	kW (hp)	148.1 (199)	148.1 (199)				
Gross Engine Power Standby	kW (hp)	162.8 (218)					
BMEP Prime	kPa (psi)	1689 (245)					
BMEP Standby	kPa (psi)	1857 (269.3)					

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

°C (°F)

°C (°F)



Fuel System							
Fuel Filter Type:				Replaceable Element			
Recommended Fuel:				Cla	ass A2 Diesel		
Fuel Consumption at			110 % Load	10	0 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)		39.7 (10.5)	36.	.9 (9.7)	29.2 (7.7)	20.7 (5.5)
50 Hz Standby	l/hr (US gal/hr)		-	39.	.7 (10.5)	31.4 (8.3)	22.4 (5.9)
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.	33 and conforming	to BS2869 clas	ssA2,EN590			
Air System				50 Hz		60 Hz	
Air Filter Type:						Replaceable Elemen	t
Combustion Air Flow Pr	rime m	n³/min (cfm)		11.9 (420)			
Combustion Air Flow St		n³/min (cfm)		12.4 (438)			
Max. Combustion Air In	take Restriction k	Pa		8 (32.1)			
Cooling System				50 Hz		60 Hz	
Cooling System Capaci	tv	l (US gal)		21 (5.5)		00112	
Water Pump Type:	-,	(00 50.1)				Centrifugal	
Heat Rejected to Water	& Lube Oil: Prime	kW (Btu/min)		64 (3640)			
Heat Rejected to Water		kW (Btu/min)		72.5 (4123)			
Heat Radiation to Room		kW (Btu/min)		35 (1990)			
Heat Radiation to Roon	n*: Standby	kW (Btu/min)		37.3 (2121)			
Radiator Fan Load:		kW (hp)		4.5 (6)			
Radiator Cooling Airflo	w:	m³/min (cfm)		276 (9747)			
External Restriction to 0	Cooling Airflow:	Pa (in H2O)		125 (0.5)			
*: Heat radiated from engi Designed to operate in am Contact your local PEGC Po conditions.	bient conditions up to 5 ower Solutions Dealer fo		specific site				
Lubrication Syst	em						
Oil Filter Type:						Spin-On, Full Flow	
Total Oil Capacity:	l (US gal)					17.5 (4.6)	
Oil Pan Capacity:	l (US gal)					15.5 (4.1)	10
Oil Type:						API CH4 / CI4 15W	-40
Oil Cooling Method:						WATER	
Exhaust System				50 Hz		60 Hz	
Maximum Allowable Ba	ck Pressure: kPa	(in Hg)		15 (4.4)			
Exhaust Gas Flow: Prim		min (cfm)		26.4 (932)			
Exhaust Gas Flow: Stan	dby m³/ı	min (cfm)		26.6 (939)			

491 (916)

491 (916)



Alternator Physical Data						
No. of Bearings:				1		
Insulation Class:		Н				
Winding Pitch:			2/3			
Winding Code				6P/6S		
Wires:				4		
Ingress Protection Rating:				IP23		
Excitation System:				SHUNT		
AVR Model:			R120			
dependant on voltage code selected						
Alternator Operating Da	ıta					
Overspeed: rpm				2250		
Voltage Regulation: (Steady state)	%			+/- 0.5		
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF:	%	2				
Total Harmonic content LL/LN:	%		2			
Radio Interference:		EN61000-6				
Radiant Heat: 50 Hz	kW (Btu/min)	10.7 (608)				
Radiant Heat: 60 Hz kW (Btu/min)						
Alternator Performance	Data 50 Hz:					
		415/240 V	400/230 V	380/220 V		
Voltage Code						
Motor Starting Capability* kVA		264	247	225		
Short Circuit Capacity** %		270	270	270	270	
D (VI		3.09	3.33	3.687		
Reactances Xd		0.149	0.16	0.177		
Reactances Xd X'd						

270

270

270

270

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 270

^{*}Based on 30% voltage dip at 0.6 power factor.

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

220/110V

208/120V 240/120 220/110



Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	160	128	175	140	
400/230V	160	128	175	140	
380/220V	160	128	175	140	
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					



#



P175-2_50Hz

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.).