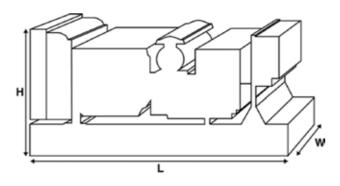


Output Ratings				
Voltage, Frequency	Prime	Standby		
kVA	180	200		
kW	144	160		
kVA				
kW				



Ratings at 0.8 power factor.

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



Dimension	ns and Weights	
Length	mm	2510 (98.8)
Width	mm	1010 (39.8)
Height	mm	1640 (64.6)
Weight (Dry)	kg	1572 (3466)
Weight (Wet)	kg	1593 (3512)

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



Engine Make	nance Data	Perkins				
Engine Model: Alternator Make		1106D-E70TAG4				
		1100D-L701AG4				
		30120				
Alternator Model: Control Panel:		100				
			T+nol			
Base Frame:		Heavy Duty Fabricated Steel 3 Pole MCCB				
Circuit Breaker Type:						
Frequency:		50 HZ 1500	60 HZ			
Engine Speed: RPM	rpm					
Fuel Tank Capacity:	litres (US gal)	394 (104.08)				
Fuel Consumption Prime	litres (US gal)/hr	41.3 (10.9)				
Fuel Consumption Standby	litres (US gal)/hr	45.2 (11.9)				
Engine Technical Da	nta					
No. of Cylinders		6				
Alignment		IN LINE				
Cycle		4 STROKE				
Bore mm (in)		105 (4.1)				
Stroke mm (in)		135 (5.3)	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: k	g m² (lb/in²)	1.53 (5228)				
Voltage	5 ()	12				
Ground		Negative				
Battery Charger Amps		65				
	rg (lb)	788 (1737)				
	g (lb)	822 (1812)				
Engine Performance Data		50 Hz	60 Hz			
Engine Speed	rpm		1500			
Gross Engine Power Prime kW (hp)		171.5 (230)				
Gross Engine Power Standby kW (hp)		188.7 (253)	188.7 (253)			
BMEP Prime	kPa (psi)	1956 (283.7)				
BMEP Standby	kPa (psi)	2153 (312.2)				



Fuel System Fuel Filter Type:				Replaceable Ele	ment	
Recommended Fuel:				Class A2 Diesel	mene	
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/	(hr)	45.2 (11.9)	41.3 (10.9)	32.6 (8.6)	23.7 (6.3)
50 Hz Standby	l/hr (US gal/		- 43.2 (11.7)	45.2 (11.9)	35.5 (9.4)	25.7 (6.8)
60 Hz Prime	l/hr (US gal/	•		45.2 (11.7)	33.3 (7.4)	23.7 (0.0)
60 Hz Standby	l/hr (US gal/		_			
(Based on diesel fuel with a			to BC2860 classA2 F	N500		
(based oil dieset luet with a :	specific gravity o	1 0.03 and comorning	to b32007 ctassAZ,i	.11370		
Air System			50	Hz	60 Hz	
Air Filter Type:					Replaceable Elemer	it
Combustion Air Flow Prim	ne	m³/min (cfm)	12.8	3 (452)		
Combustion Air Flow Star	ndby	m³/min (cfm)	13.3	2 (466)		
Max. Combustion Air Intak	e Restriction	kPa	8 (3	2.1)		
Cooling System			50	Hz	60 Hz	
Cooling System Capacity		l (US gal)	27 (7.1)		
Water Pump Type:					Centrifugal	
Heat Rejected to Water &	Lube Oil: Prime	kW (Btu/min)	72.	7 (4134)		
Heat Rejected to Water &	Lube Oil: Stand	dby kW (Btu/min)	80.	3 (4595)		
Heat Radiation to Room*:	Prime	kW (Btu/min)	38.	9 (2212)		
Heat Radiation to Room*:	Standby	kW (Btu/min)	42	2388)		
Radiator Fan Load:		kW (hp)	6.3	(8.5)		
Radiator Cooling Airflow:		m³/min (cfm)	328	(11583)		
External Restriction to Coo	oling Airflow:	Pa (in H2O)	125	(0.5)		
*: Heat radiated from engine Designed to operate in ambie Contact your local PEGC Powe conditions.	nt conditions up er Solutions Deale		specific site			
Lubrication System	m				Coin On Full Flow	
Oil Filter Type:	1 (IIC acl)				Spin-On, Full Flow	
Total Oil Capacity:	l (US gal)				17.5 (4.6) 15.5 (4.1)	
Oil Pan Capacity:	l (US gal)				API CH4 / CI4 15W	40
Oil Cooling Method:					WATER	-10
Oil Cooling Method:					WAIEK	
Exhaust System				Hz	60 Hz	
Maximum Allowable Back		Pa (in Hg)		4.4)		
Exhaust Gas Flow: Prime		m³/min (cfm)		2 (1067)		
Exhaust Gas Flow: Standb		m³/min (cfm)		7 (1119)		
Exhaust Gas Temperature:	Prime °	C (°F)	530	(986)		

530 (986)

°C (°F)

Exhaust Gas Temperature: Standby



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 Dat	a				
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/		12.2 (694)			
Radiant Heat: 60 Hz kW (Btu/mir					
Alternator Performance D	Data 50 Hz:				
		415/240 V	400/230 V	380/220 V	
Voltage Code					
Motor Starting Capability* kVA		328	307	280	
Short Circuit Capacity** %		270	270	270	270
onor con care capacity /0		3.19	3.44	3.809	
Reactances Xd					
· · · · · ·		0.158	0.17	0.188	

270

270

270

270

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 270

Reactances shown are applicable to prime ratings.

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

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

220/110



Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	180	144	200	160	
400/230V	180	144	200	160	
380/220V	180	144	200	160	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output Ratings	100 112	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					



#



P200-3_50Hz

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.).