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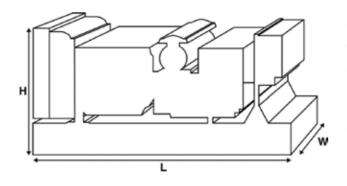
Standard Alternator

Output Ratings		
Voltage, Frequency	Prime	Standby
kVA	250	275
kW	200	220
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	2662 (104.8)
Width	mm	1071 (42.2)
Height	mm	1818 (71.6)
Weight (Dry)	kg	2035 (4486)
Weight (Wet)	kg	2068 (4559)

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:	Engine Model:				
Alternator Make					
Alternator Model:		5114H			
Control Panel:		DSE7410			
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)	528 (139.48)			
Fuel Consumption Prime	litres (US gal)/hr	56.6 (15)			
Fuel Consumption Standby	litres (US gal)/hr	60.6 (16)			
Engine Technical Data					
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore mm	ı (in)	112 (4.4)			
Stroke mm (in)		149 (5.9)			
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC			
Governing Class		ISO 8528 G2			
Compression Ratio		16.1:1			
Displacement L (c	u. in)	8.8 (537)			
Moment of Inertia: kg r	m² (lb/in²)	2.4031 (8212)			
Voltage	,	24			
Ground		Negative			
Battery Charger Amps		45			
Engine Weight Dry kg (lb)	778 (1715)			
Engine Weight Wet kg		800 (1764)			
Engine Performance	Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Prime	kW (hp)	258 (346)			
Gross Engine Power Standby	kW (hp)		281 (377)		
			2344 (339.9)		
BMEP Prime kPa (psi) BMEP Standby kPa (psi)			2552 (370.2)		

Exhaust Gas Temperature: Standby

°C (°F)



Fuel System						
Fuel Filter Type:				Replaceable El	ement	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal	/hr)	60.6 (16)	56.6 (15)	46 (12.2)	34.7 (9.2)
50 Hz Standby	l/hr (US gal	/hr)		60.6 (16)	49.3 (13)	37 (9.8)
60 Hz Prime	l/hr (US gal	/hr)				
60 Hz Standby	l/hr (US gal	/hr)	-			
(Based on diesel fuel with a	specific gravity o	f 0.85 and conforming	to BS2869, class A	2		
Air System			5	0 Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Prir	me	m³/min (cfm)	14	1.1 (498)		
Combustion Air Flow Sta	ndby	m³/min (cfm)	15	5 (530)		
Max. Combustion Air Inta	ke Restriction	kPa	6.	2 (24.9)		
Cooling System			5	0 Hz	60 Hz	
Cooling System Capacity		l (US gal)		0.7 (8.1)		
Water Pump Type:		. (55 5)			Centrifugal	
Heat Rejected to Water &	Lube Oil: Prime	e kW (Btu/min)	11	0 (6256)	•	
Heat Rejected to Water &				2 (6369)		
Heat Radiation to Room*:		kW (Btu/min)		2.5 (1848)		
Heat Radiation to Room*	: Standby	kW (Btu/min)	34	1.3 (1951)		
Radiator Fan Load:	•	kW (hp)		7 (10.3)		
Radiator Cooling Airflow:		m³/min (cfm)	32	29.1 (11624)		
External Restriction to Co	oling Airflow:	Pa (in H2O)	12	25 (0.5)		
*: Heat radiated from engine Designed to operate in ambi Contact your local PEGC Pow conditions.	ent conditions up ver Solutions Dea		specific site			
Lubrication Syste	m				C : E II (I	
Oil Filter Type:	1 (UC e-1)				Spin-on, Full flow	
Total Oil Capacity:	l (US gal)				39 (10.3)	
Oil Pan Capacity:	l (US gal)				36 (9.5) API CI-4 0W-30	
Oil Cooling Mothod:					WATER	
Oil Cooling Method:					WAILK	
Exhaust System			5	0 Hz	60 Hz	
Maximum Allowable Back	Pressure:	κPa (in Hg)		0 (3)		
Exhaust Gas Flow: Prime	1	m³/min (cfm)	37	7.5 (1324)		
Exhaust Gas Flow: Standb	ру	m³/min (cfm)).4 (1427)		
Exhaust Gas Temperature	: Prime	°C (°F)	53	37 (999)		

558 (1036)



Alternator Physical Data					
No. of Bearings:				1	
Insulation Class:				Н	
Winding Pitch:				2/3	
Winding Code				6	
Wires:				12	
Ingress Protection Rating:				IP23	
Excitation System:				SHUNT	
AVR Model:				R250	
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/min)	19.3 (1098)			
Radiant Heat: 60 Hz	kW (Btu/min)				
Alternator Performance D	Data 50 Hz:				
		415/240 V	400/230 V	380/220 V	
Voltage Code			230/115 V		
			230 V		
Motor Starting Capability* kVA		563	532	491	
Short Circuit Capacity** %		300	300	300	300
Reactances Xd		3.823	4.115	4.377	
X'd		0.265	0.285	0.303	
X"d		0.169	0.169	0.18	

300

300

300

300

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 300

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

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



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	250	200	275	220
400/230V	250	200	275	220
380/220V	240	192	264	211.2
230/115V	250	200	275	220
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
Output Rutings	00 112	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				
220/110				





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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.).