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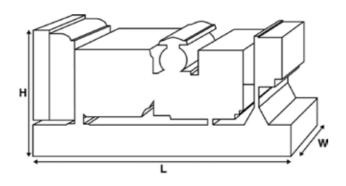
Standard Alternator

Output Ratings						
Voltage, Frequency	Prime	Standby				
kVA	50	55				
kW	40	44				
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	1870 (73.6)					
Width	mm	840 (33.1)					
Height	mm	1333 (52.5)					
Weight (Dry)	kg	818 (1803)					
Weight (Wet)	kg	831 (1832)					

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		Perkins	
Engine Model:		1104C-44TG2/3	
Alternator Make		11040 44102/0	
		20070	
Alternator Model:		100	
Control Panel:		Heavy Duty Fabricated St	مما
Base Frame:		3 Pole MCB	50 1
Circuit Breaker Type:		50 HZ	60 HZ
Frequency:	KID IDO	1500	00112
Engine Speed: RPM	rpm	180 (47.55)	
Fuel Canadian Prima	litres (US gal)	15.9 (4.2)	
Fuel Consumption Prime	litres (US gal)/hr	17.4 (4.6)	
Fuel Consumption Standby	litres (US gal)/hr	17.7 (7.0)	
Engine Technical Dat	:a		
No. of Cylinders		4	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore mi	m (in)	105 (4.1)	
Stroke mi	m (in)	127 (5)	
Induction		TURBOCHARGED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		18.2:1	
Displacement L (cu. in)	4.4 (268.5)	
Moment of Inertia: kg	m² (lb/in²)	1.14 (3896)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry kg	(lb)	401 (884)	
Engine Weight Wet kg	(lb)	414 (912)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	56.2 (75)	
Gross Engine Power Standby	kW (hp)	62.5 (84)	
BMEP Prime	kPa (psi)	1022 (148.2)	
BMEP Standby	kPa (psi)	1137 (164.9)	



Fuel System							
Fuel Filter Type:				Ren	laceable Ele	ment	
Recommended Fuel:					s A2 Diesel		
Fuel Consumption at			110 % Load		% Load	75 % Load	50 % Load
•	l/hr (US gal/hr)		17.4 (4.6)		(4.2)	12 (3.2)	8.1 (2.1)
	l/hr (US gal/hr)		-		(4.6)	13.1 (3.5)	8.9 (2.4)
•	l/hr (US gal/hr)				-7	- ()	
	l/hr (US gal/hr)		-				
(Based on diesel fuel with a spec		and conforming to	BS2869 class	sA2,EN590			
Air System				50 Hz		60 Hz	
Air Filter Type:						Replaceable Elemei	nt
Combustion Air Flow Prime	m	³/min (cfm)		4.3 (153)			
Combustion Air Flow Standb		³/min (cfm)		4.4 (156)			
Max. Combustion Air Intake I	Restriction kF	Pa		8 (32.1)			
Cooling System				50 Hz		60 Hz	
Cooling System Capacity		I (US gal)		12.6 (3.3)			
Water Pump Type:		, ,				Centrifugal	
Heat Rejected to Water & Lub	e Oil: Prime	kW (Btu/min)		38 (2161)			
Heat Rejected to Water & Luk	e Oil: Standby	kW (Btu/min)		42 (2388)			
Heat Radiation to Room*: Pri	me	kW (Btu/min)		15 (853)			
Heat Radiation to Room*: Sta	andby	kW (Btu/min)		18.9 (1075)			
Radiator Fan Load:		kW (hp)		1 (1.3)			
Radiator Cooling Airflow:		m³/min (cfm)		97.8 (3454)			
External Restriction to Coolir	g Airflow:	Pa (in H2O)		125 (0.5)			
*: Heat radiated from engine and Designed to operate in ambient Contact your local PEGC Power conditions. Lubrication System	conditions up to 5		at specific site				
Oil Filter Type:						Spin-On, Full Flow	
Total Oil Capacity:	US gal)					8 (2.1)	
Oil Pan Capacity:	JS gal)					7 (1.8)	
Oil Type:						API CC/SE	
Oil Cooling Method:						WATER	
Exhaust System				50 Hz		60 Hz	
Maximum Allowable Back Pre	ssure: kPa (in Hg)		12 (3.5)			
Exhaust Gas Flow: Prime	m³/m	nin (cfm)		10.9 (385)			
Exhaust Gas Flow: Standby	m³/m	nin (cfm)		11.8 (417)			
Exhaust Gas Temperature: Pr	ime °C (°F	5)		535 (995)			
Exhaust Gas Temperature: St	andby °C (°F	1		583 (1081)			



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)	%			+/- 1.0			
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)	5.9 (336)					
Radiant Heat: 60 Hz	kW (Btu/min)						
Alternator Performance I	Data 50 Hz:						
		415/240 V	400/230 V	380/220 V			
Voltage Code							
Motor Starting Capability* kVA		86	81	74			
Short Circuit Capacity** %		270	270	270	270		
Reactances Xd		2.64	2.84	2.993			
X'd		0.131	0.141	0.148			
		0.072	0.072	0.076			
X"d		0.012	0.012				

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)

220/127V 220/110V

208/120V 240/120 220/110



Output Ratings	50 п2				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	50	40	55	44	
400/230V	50	40	55	44	
380/220V	48.5	38.8	53	42.4	
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					





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D	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 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 www.pegcpowersolutions.com.

PEGC Power Solutions is a trading name of Public Electric Generator Concern (PEGC Power Solutions & Engineering Services (Pvt) Ltd.).