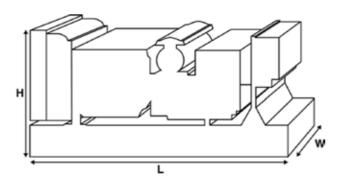


Output Ratings					
Voltage, Frequency	Prime	Standby			
kVA	150	165			
kW	120	132			
kVA					
kW					



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	1544 (60.8)			
Weight (Dry)	kg	1413 (3115)			
Weight (Wet)	kg	1434 (3161)			

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:		1106A-70TAG2	
Alternator Make			
Alternator Model:		30100	
Control Panel:		100	
Base Frame:		Heavy Duty Fabricated S	teel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)	327 (86.38)	
Fuel Consumption Prime	litres (US gal)/hr	32.4 (8.6)	
Fuel Consumption Standby	litres (US gal)/hr	35.1 (9.3)	
Engine Technical Dat	a	6	
No. of Cylinders			
Alignment		IN LINE	
Cycle -		4 STROKE	
	n (in)	105 (4.1)	
	n (in)	135 (5.3)	AID CHARGE COOLED
Induction		TURBOCHARGED AIR TO	AIR CHARGE COOLED
Cooling Method		WATER	
Governing Type		MECHANICAL (SO 0520 C2)	
Governing Class		ISO 8528 G2	
Compression Ratio		16.0:1	
· ·	cu. in)	7 (427.8)	
•	m² (lb/in²)	1.53 (5228)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		85	
	(lb)	788 (1737)	
Engine Weight Wet kg	(lb)	822 (1812)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	136 (182)	155.4 (208)
Gross Engine Power Standby	kW (hp)	149.1 (200)	171.8 (230)
BMEP Prime	kPa (psi)	1551 (225)	1477 (214.2)
BMEP Standby	kPa (psi)	1701 (246.7)	1633 (236.8)



Fuel System Fuel Filter Type:				Replaceable Ele	ment	
Fuel Filter Type: Recommended Fuel:				Class A2 Diesel	mene	
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	I/br /IIC gal	/hr)	35.1 (9.3)	32.4 (8.6)	25 (6.6)	16.7 (4.4)
	l/hr (US gal		33.1 (7.3)	35.1 (9.3)	27.3 (7.2)	18.4 (4.9)
50 Hz Standby	l/hr (US gal	•	-	33.1 (7.3)	27.3 (7.2)	10.4 (4.7)
60 Hz Prime	l/hr (US gal					
60 Hz Standby	l/hr (US gal	*	+o DC2940 classA2	ENEGO		
(Based on diesel fuel with a	specific gravity (or 0.85 and conforming	to BSZ869 ClassAZ,	ENOYU		
Air System			50) Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Pri	me	m³/min (cfm)	10	(351)		
Combustion Air Flow Sta	andby	m³/min (cfm)	10.	6 (374)		
Max. Combustion Air Inta	ake Restriction	kPa	5 (20.1)		
Cooling System			5() Hz	60 Hz	
Cooling System Capacity	/	l (US gal)		(5.5)		
Water Pump Type:		, - J ,			Centrifugal	
Heat Rejected to Water 8	t Lube Oil: Prime	kW (Btu/min)	69.	1 (3930)		
Heat Rejected to Water	£ Lube Oil: Stan	dby kW (Btu/min)	75.	7 (4305)		
Heat Radiation to Room*		kW (Btu/min)	20.	2 (1149)		
Heat Radiation to Room	*: Standby	kW (Btu/min)	22.	.3 (1268)		
Radiator Fan Load:	•	kW (hp)		(6)		
Radiator Cooling Airflow	r;	m³/min (cfm)	259	9.2 (9154)		
External Restriction to C	ooling Airflow:	Pa (in H2O)	125 (0.5)			
*: Heat radiated from engin Designed to operate in amb Contact your local PEGC Por conditions.	ient conditions up wer Solutions Deal		specific site			
Lubrication Syste	em				Spin-on, Full flow	
Oil Filter Type:	1 (IIC ==1)					
Total Oil Capacity:	l (US gal)				16.5 (4.4) 14.9 (3.9)	
Oil Pan Capacity:	l (US gal)				API CH4 / CI4 15W	40
Oil Type: Oil Cooling Method:					WATER	
Oil Cooling Method:					WAIEK	
Exhaust System) Hz	60 Hz	
Maximum Allowable Bac		κPa (in Hg)		1.8)		
Exhaust Gas Flow: Prime		m³/min (cfm)		9 (843)		
Exhaust Gas Flow: Stand		m³/min (cfm)		3 (895)		
Exhaust Gas Temperature	e: Prime	°C (°F)	47	1 (880)		

471 (880)

°C (°F)

Exhaust Gas Temperature: Standby



Alternator Physical Data	1					
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)			10.1 (574)		
Radiant Heat: 60 Hz	kW (Btu/min)			0 ()		
Alternator Performance	Data 50 Hz:					
		415/240 V	400/230 V	380/220 V	220/127 V	
Voltage Code						
			200/115 V			
Motor Starting Capability* kVA		233	219	199	259	
Short Circuit Capacity** %		270	270	270	270	
Reactances Xd		3.34	3.6	3.984	2.67	
X'd		0.158	0.17	0.189	0.127	
X"d		0.102	0.102	0.113	0.076	

Voltage Code

Motor Starting Capability*	kVA						
Short Circuit Capacity**	%	270	270	270	270	270	
Reactances	Xd						
	X'd						
	X"d						

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)

240/120V 230/115V 220/127V 220/110V

208/120V 240/120 220/110



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	150	120	165	132
400/230V	150	120	165	132
380/220V	150	120	165	132
230/115V	150	120	165	132
220/127V	150	120	165	132
220/110V	150	120	165	132
200/115V	150	120	165	132
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				



#



P165-5_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.).