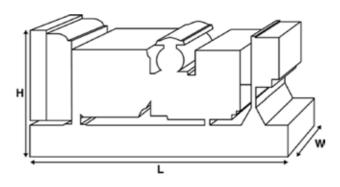


Output Ratings							
Voltage, Frequency	Prime	Standby					
kVA	14.5	15.9					
kW	11.6	12.72					
kVA							
kW							



### Ratings at 0.8 power factor.

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



<b>Dimensions and Weights</b>							
Length	mm	1550 (61)					
Width	mm	620 (24.4)					
Height	mm	1020 (40.2)					
Weight (Dry)	kg	329 (725)					
Weight (Wet)	kg	335 (739)					

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



ance Data		
	Perkins	
Engine Model:		
Alternator Model: Control Panel: Base Frame:		
		teel
Circuit Breaker Type:		
	50 HZ	60 HZ
rpm	1500	
litres (US gal)		
litres (US gal)/hr	4.3 (1.1)	
litres (US gal)/hr	4.9 (1.3)	
 a		
-	3	
	IN LINE	
	4 STROKE	
Cycle Bore mm (in)		
Stroke mm (in)		
Induction		
Cooling Method		
Governing Type		
Governing Class		
	22.5:1	
cu. in)	1.5 (91.3)	
m² (lb/in²)	2.46 (8406)	
	12	
	Negative	
	40	
(lb)	197 (434)	
(lb)	215 (474)	
Data	50 Hz	60 Hz
	1500	
	rpm litres (US gal) litres (US gal)/hr litres (US gal)/hr  a  n (in) n (in) m² (lb/in²)	Perkins 403A-15G2  10040 100 Heavy Duty Fabricated S 3 Pole MCB 50 HZ rpm 1500 litres (US gal) litres (US gal)/hr 4.3 (1.1) litres (US gal)/hr 4.9 (1.3)   a  3 IN LINE 4 STROKE In (in) 90 (3.5) NATURALLY ASPIRATED WATER MECHANICAL ISO 8528 22.5:1 22.5:1 22.5:1 24.6 (8406) 12 Negative 40 (lb) 197 (434) (lb) 197 (434) (lb) 215 (474)   Data 50 Hz rpm 1500 kW (hp) kW (hp) 13.7 (18) kW (hp) 15.1 (20) kPa (psi) 734 (106.5)



Fuel System							
Fuel Filter Type:				Repl	aceable Ele	ment	
Recommended Fuel:				Clas	s A2 Diesel		
Fuel Consumption at		110 % Load	100	% Load	75 % Load	50 % Load	
50 Hz Prime:	l/hr (US ga	l/hr)	4.9 (1.3)	4.3 (	1.1)	3 (0.8)	2.2 (0.6)
50 Hz Standby	l/hr (US ga	l/hr)	-	4.9 (	1.3)	3.3 (0.9)	2.4 (0.6)
60 Hz Prime	l/hr (US ga	l/hr)					
60 Hz Standby	l/hr (US ga	l/hr)	-				
(Based on diesel fuel with a	a specific gravity	of 0.84 and conforming	to BS2869, class	s A2			
Air System				50 Hz		60 Hz	
Air Filter Type:						Replaceable Element	
Combustion Air Flow Pr	ime	m³/min (cfm)		1 (35)			
Combustion Air Flow St	andby	m³/min (cfm)					
Max. Combustion Air Int.	ake Restriction	kPa		6.4 (25.7)			
Cooling System				50 Hz		60 Hz	
Cooling System Capacit	у	l (US gal)		6 (1.6)			
Water Pump Type:						Centrifugal	
Heat Rejected to Water	& Lube Oil: Prim	ne kW (Btu/min)		13.3 (756)			
Heat Rejected to Water	& Lube Oil: Star	ndby kW (Btu/min)		14.6 (830)			
Heat Radiation to Room	*: Prime	kW (Btu/min)		5.5 (313)			
Heat Radiation to Room	*: Standby	kW (Btu/min)		6.2 (353)			
Radiator Fan Load:		kW (hp)		0.2 (0.2)			
Radiator Cooling Airflow	<b>v</b> :	m³/min (cfm)	)	33 (1165)			
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 Po conditions.	pient conditions u		specific site				
<b>Lubrication Syst</b>	em						
Oil Filter Type:						Spin-on, Full flow	
Total Oil Capacity:	l (US gal)					6 (1.6)	
Oil Pan Capacity:	l (US gal)					4.5 (1.2)	
Oil Type:						API CH4 15W-40	
Oil Cooling Method:						N/A	
<b>Exhaust System</b>				50 Hz		60 Hz	
Maximum Allowable Bac	k Pressure:	kPa (in Hg)		10.2 (3)			
Exhaust Gas Flow: Prime	2	m³/min (cfm)		2.2 (78)			
Exhaust Gas Flow: Stand	dby	m³/min (cfm)					
Exhaust Gas Temperature	e: Prime	°C (°F)		470 (878)			

580 (1076)

°C (°F)

Exhaust Gas Temperature: Standby



<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					65	
Wires:					4	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					R120	
dependant on voltage code selecte	d					
<b>Alternator Operatir</b>	ng Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/I	LN:	%			3.5	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)			2.2 (125)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance Da	ata 50 Hz:				
Accident Citorine	unce De	10 30 112.	415/240 V	400/230 V	380/220 V	
Voltage Code			413/240 V	4007230 V	3007 220 V	
Motor Starting Capability*	kVA		28	26	24	
Short Circuit Capacity**	%		0	0	0	0
Reactances	Xd		1.718	1.849	2.048	
	X'd		0.152	0.163	0.181	
	X"d		0.082	0.082	0.09	
<b>Alternator Perform</b>	ance Da	nta 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	0	0	0	0	0
_						

Reactances shown are applicable to prime ratings.

Reactances

Xd X'd X"d

<sup>\*</sup>Based on 30% voltage dip at 0.6 power factor.

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)

220/127V 220/110V

208/120V

240/120220/110



	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	14.5	11.6	15.9	12.72
400/230V	14.5	11.6	15.9	12.72
380/220V	14.5	11.6	15.9	12.72
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
output Ratings	00 112	Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V				
480/277V				
480/277V 440/254V				
480/277V 440/254V 416/240V				
480/277V 440/254V 416/240V 400/230V 380/220V				
480/277V 440/254V 416/240V 400/230V				



#



P16-1(Skid)

### **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 <a href="https://www.pegcpowersolutions.com">www.pegcpowersolutions.com</a>.

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