

MP45EP



Output Rating					
Voltage	Frequency		Standby	Prime	
400 V	50 Hz	KVA	50	45	
		KW	40	36	

Rating Definitions

Ratings are in accordance with ISO 8528, ISO 3046, BS 5514.

Prime Rating

Applicable for supplying continuous electrical power (no limitation to annual hours of operation), at variable load, in lieu of utility power network; 10% overload is permitted for 1 hour in every 12 hours.

Standby Rating

Applicable for supplying continuous electrical power, at variable load, in the event of a utility power failure; no overload is permitted on standby ratings.

Standard Reference Conditions

Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

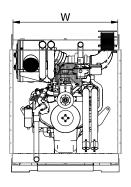
General Data		
Engine Make	Perkins	
Engine Model	1103A-33TG1	
Alternator Make	Stamford	
Alternator Model	UCI224D/S1L2N	
Control Unit	DSE 7x20	
Engine Speed: RPM	1500	
Fuel Tank Capacity (I)	125	
Fuel Consumption Standby (I/hr)	11.7	
Fuel Consumption Prime (I/hr)	10.8	
Fuel Consumption 75% (I/hr)	8.2	
Fuel Consumption 50% (I/hr)	5.8	

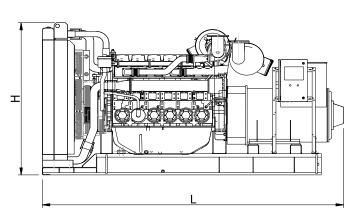
Optional Features and Customization

Optional Features and Customization include:

- Weather and sound proof enclosure
- Stand-alone control panel
- Synchronizing panel
- Load sharing
- Residential silencer
- CE certification
- LV Circuit Breaker

Dimensions and Weights					
	Length	Width	Height	Weigh	t (Kg)
	(mm)	(mm)	(mm)	Dry	Wet
Open Set	1700	700	1410	751	780
Canopied Set	2298	1104	1600	1111	1145

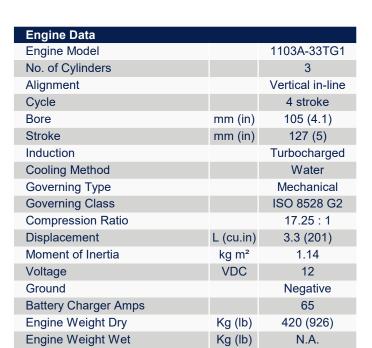




[•] Dimensions and weights are for guidance only. Certified drawings are available upon request. Specifications may change without notice.



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Engine Performance Data		
Engine Speed	rpm	1500
Gross Engine Power Prime	kW (hp)	42.2 (56.6)
Gross Engine Power Standby	kW (hp)	46.5 (62.4)
BMEP Prime	kPa (psi)	1023.0 (148.4)
BMEP Standby	kPa (psi)	1127.0 (163.5)

Air System		
Combustion Air Flow Prime	m³/min	2.9
Combustion Air Flow Standby	m³/min	3.1
Max. Combustion Air Intake Restri	kPa	8.0

Alternator Physical Data	
No. of Bearings	1
Insulation Class	Н
Winding Pitch	2/3
Winding Code	N.A.
Wires	12
Ingress Protection Rating	IP23
Excitation System	Shunt
AVR Model	AS540
Radio Interference Suppression	EN61000-6



Fuel System		
Recommended Fuel		Class A2 Diesel
Fuel Consumption Prime (110%)	l/hr	11.7
Fuel Consumption Prime (100%)	l/hr	10.8
Fuel Consumption Prime (75%)	l/hr	8.2
Fuel Consumption Prime (50%)	l/hr	5.8
Fuel Consumption Standby (110%	l/hr	N.A.
Fuel Consumption Standby (100%	l/hr	11.7
Fuel Consumption Standby (75%)	l/hr	8.7
Fuel Consumption Standby (50%)	l/hr	6.0
Fuel Consumption Continuous	l/hr	N.A.

(Based on diesel fuel with a specific gravity of 0.86 and conforming to	
BS2869 classA2,EN590	

Cooling System		
Cooling System Capacity	(I)	10.2
Heat Radiation to Room*: Prime	kW	11.5
Heat Radiation to Room*: Standby	kW	13.4
Radiator Fan Load	kW	0.5
External Restriction to Airflow	Pa	120

Lubrication System		
Oil Filter Type		Replaceable elt.
Total Oil Capacity	(I)	8.3
Oil Pan Capacity:	(1)	7.9
Oil Type		SAE 15W40
Oil Cooling Method		Water

Exhaust System		
Maximum Allowable Back Pressur	kPa	10.0
Exhaust Gas Flow: Prime	m³/min	7.0
Exhaust Gas Flow: Standby	m³/min	7.7
Exhaust Gas T°: Prime	°C	492
Exhaust Gas T°: Standby	°C	492

Alternator Operating Data				
Overspeed	rpm	2250		
Voltage Regulation: (Steady state)	%	±1		
Total Harmonic content	%	<5		
Short Circuit Capacity	%	>300		
Reactance (Xd)	%	173		
Reactance (X'd)	%	16		
Reactance (X"d)	%	12		

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