

MP1350EP

Output Rating

Voltage	Frequency		Standby	Prime
400 V	50 Hz	KVA	1498	1363
		KW	1198	1090

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	4012-46TWG3A
Alternator Make	Stamford
Alternator Model	PI 734B
Control Unit	DSE 7x20
Engine Speed: RPM	1500
Fuel Tank Capacity (l)	TBC
Fuel Consumption Standby (l/hr)	318.0
Fuel Consumption Prime (l/hr)	283.0
Fuel Consumption 75% (l/hr)	213.0
Fuel Consumption 50% (l/hr)	151.0

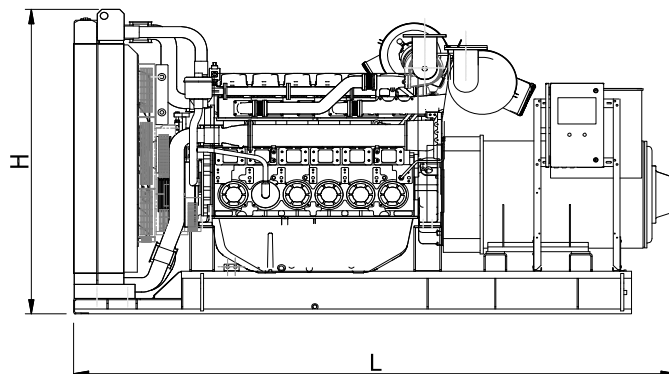
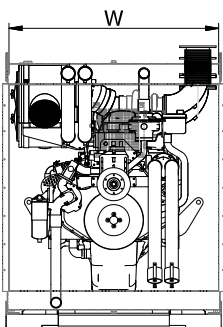
Optional Features and Customization

Optional Features and Customization include:

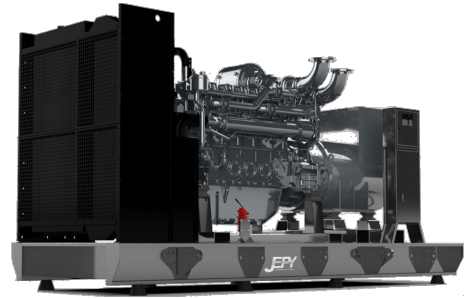
- Weather and sound proof enclosure
- Stand-alone control panel
- Synchronizing panel
- Load sharing
- Residential silencer
- CE certification
- LV Circuit Breaker

Dimensions and Weights

	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	
				Dry	Wet
Open Set	5100	2050	2510	9360	10500
Canopied Set	TBC	TBC	TBC	TBC	TBC



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



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Engine Data		
Engine Model		4012-46TWG3A
No. of Cylinders		12
Alignment		60° Vee form
Cycle		4 stroke
Bore	mm (in)	160 (6.3)
Stroke	mm (in)	190 (7.5)
Induction		TC-AW-CC
Cooling Method		Water
Governing Type		Electronic
Governing Class		ISO 8528 G2
Compression Ratio		13 : 1
Displacement	L (cu.in)	45.842 (2797)
Moment of Inertia	kg m ²	19.3
Voltage	VDC	24
Ground		Negative
Battery Charger Amps		40
Engine Weight Dry	Kg (lb)	5220 (11508)
Engine Weight Wet	Kg (lb)	N.A.

Engine Performance Data		
Engine Speed	rpm	1500
Gross Engine Power Prime	kW (hp)	1200 (1609)
Gross Engine Power Standby	kW (hp)	1314 (1762)
BMEP Prime	kPa (psi)	2094 (303.7)
BMEP Standby	kPa (psi)	2293 (332.6)

Air System		
Combustion Air Flow Prime	m ³ /min	110
Combustion Air Flow Standby	m ³ /min	115
Max. Combustion Air Intake Restri	kPa	4

Alternator Physical Data		
No. of Bearings		1
Insulation Class		H
Winding Pitch		2/3
Winding Code		N.A.
Wires		12
Ingress Protection Rating		IP23
Excitation System		Shunt
AVR Model		MX341
Radio Interference Suppression		EN61000-6

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Fuel System		
Recommended Fuel		Class A2 Diesel
Fuel Consumption Prime (110%)	l/hr	318.0
Fuel Consumption Prime (100%)	l/hr	283.0
Fuel Consumption Prime (75%)	l/hr	213.0
Fuel Consumption Prime (50%)	l/hr	151.0
Fuel Consumption Standby (110%)	l/hr	N.A.
Fuel Consumption Standby (100%)	l/hr	318.0
Fuel Consumption Standby (75%)	l/hr	235.4
Fuel Consumption Standby (50%)	l/hr	166.6
Fuel Consumption Continuous	l/hr	225.0

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

Cooling System		
Cooling System Capacity	(l)	196
Heat Radiation to Room*: Prime	kW	145
Heat Radiation to Room*: Standby	kW	160
Radiator Fan Load	kW	55
External Restriction to Airflow	Pa	250

Lubrication System		
Oil Filter Type		Replaceable elt.
Total Oil Capacity	(l)	177
Oil Pan Capacity:	(l)	157
Oil Type		SAE 15W40
Oil Cooling Method		Water

Exhaust System		
Maximum Allowable Back Pressur	kPa	5
Exhaust Gas Flow: Prime	m ³ /min	240
Exhaust Gas Flow: Standby	m ³ /min	240
Exhaust Gas T°: Prime	°C	422
Exhaust Gas T°: Standby	°C	422

Alternator Operating Data		
Overspeed	rpm	2250
Voltage Regulation: (Steady state)	%	±1
Total Harmonic content	%	<5
Short Circuit Capacity	%	>300
Reactance (Xd)	%	326
Reactance (X'd)	%	20
Reactance (X''d)	%	15