

MP400EP

Output Rating

Voltage	Frequency		Standby	Prime
400 V	50 Hz	KVA	425	400
		KW	340	320

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	2206A-E13TAG3
Alternator Make	Stamford
Alternator Model	S4L1DF
Control Unit	DSE 7x20
Engine Speed: RPM	1500
Fuel Tank Capacity (l)	630
Fuel Consumption Standby (l/hr)	90.0
Fuel Consumption Prime (l/hr)	89.0
Fuel Consumption 75% (l/hr)	81.0
Fuel Consumption 50% (l/hr)	N.A.

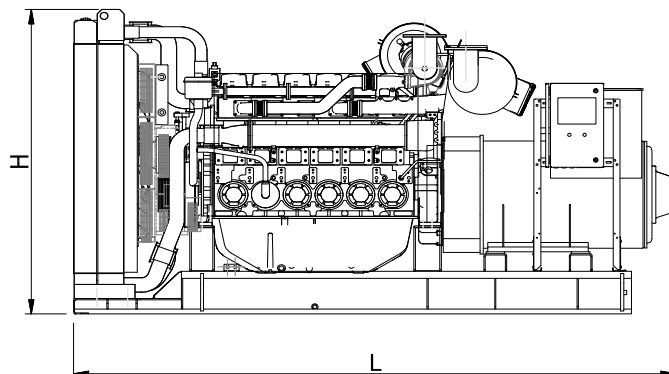
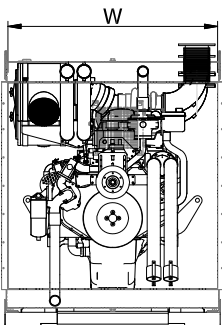
Optional Features and Customization

Optional Features and Customization include:

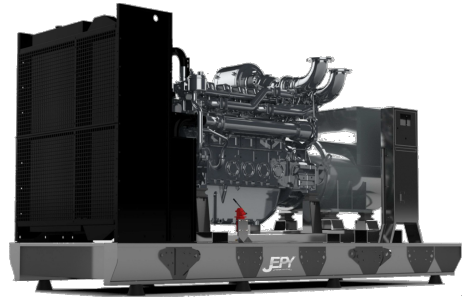
- Weather and sound proof enclosure
- Stand-alone control panel
- Synchronizing panel
- Load sharing
- Residential silencer
- CE certification
- LV Circuit Breaker

Dimensions and Weights

	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	
				Dry	Wet
Open Set	3150	1170	1750	3660	TBA
Canopied Set	4900	1820	2463	5163	TBA



• 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		2206A-E13TAG3
No. of Cylinders		6 vertical
Alignment		in-line
Cycle		4 stroke
Bore	mm (in)	130 (5.1)
Stroke	mm (in)	157 (6.1)
Induction		TC AA
Cooling Method		Water-cooled
Governing Type		Electronic
Governing Class		G2
Compression Ratio		16.3 : 1
Displacement	L (cu.in)	12.5 (763)
Moment of Inertia	kg m ²	2.77
Voltage	VDC	24 VDC
Ground		Negative
Battery Charger Amps		5
Engine Weight Dry	Kg (lb)	1478 (3258)
Engine Weight Wet	Kg (lb)	1525 (3362)

Engine Performance Data		
Engine Speed	rpm	1500
Gross Engine Power Prime	kW (hp)	368 (493)
Gross Engine Power Standby	kW (hp)	413 (553)
BMEP Prime	kPa (psi)	2348 (340.6)
BMEP Standby	kPa (psi)	2636 (382.3)

Air System		
Combustion Air Flow Prime	m ³ /min	25.6
Combustion Air Flow Standby	m ³ /min	28.1
Max. Combustion Air Intake Restri	kPa	6.2

Alternator Physical Data		
No. of Bearings		1
Insulation Class		H
Winding Pitch		2/3
Winding Code		R1
Wires		12
Ingress Protection Rating		IP21
Excitation System		Self Excited
AVR Model		AS440
Radio Interference Suppression		EN61000-6

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Fuel System		
Recommended Fuel		Class A2 Diesel
Fuel Consumption Prime (110%)	l/hr	90.0
Fuel Consumption Prime (100%)	l/hr	89.0
Fuel Consumption Prime (75%)	l/hr	81.0
Fuel Consumption Prime (50%)	l/hr	N.A.
Fuel Consumption Standby (110%)	l/hr	N.A.
Fuel Consumption Standby (100%)	l/hr	90.0
Fuel Consumption Standby (75%)	l/hr	N.A.
Fuel Consumption Standby (50%)	l/hr	N.A.
Fuel Consumption Standby (25%)	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	(l)	51.4
Heat Radiation to Room*: Prime	kW	56
Heat Radiation to Room*: Standby	kW	66
Radiator Fan Load	kW	14
External Restriction to Airflow	Pa	125

Lubrication System		
Oil Filter Type		Spin-on, Full flow
Total Oil Capacity	(l)	40
Oil Pan Capacity:	(l)	38
Oil Type		SAE 15W40
Oil Cooling Method		Water-cooled

Exhaust System		
Maximum Allowable Back Pressur	kPa	10
Exhaust Gas Flow: Prime	m ³ /min	72
Exhaust Gas Flow: Standby	m ³ /min	75.8
Exhaust Gas T°: Prime	°C	630
Exhaust Gas T°: Standby	°C	630

Alternator Operating Data		
Overspeed	rpm	2250
Voltage Regulation: (Steady state)	%	±1.0
Total Harmonic content LL/LN	%	5
Short Cirtui Capacity	%	300
Reactance (Xd)	%	328
Reactance (X'd)	%	18
Reactance (X''d)	%	13