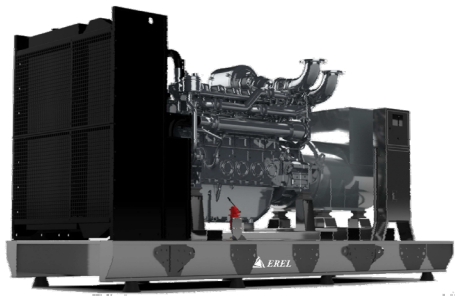
MP600EP



Output Rating				
Voltage	Frequency		Standby	Prime
400 V	50 Hz	KVA	660	600
		KW	529	480

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.

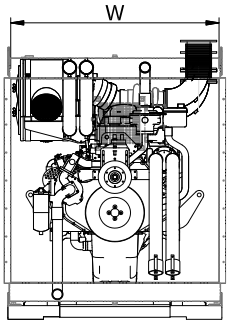
Standard Reference Conditions
Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

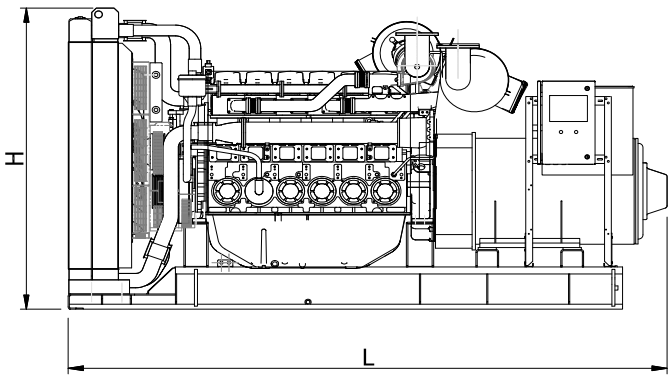
General Data	
Engine Make	Perkins
Engine Model	2806A-E18TAG1A
Alternator Make	Stamford
Alternator Model	HCI544E
Control Unit	DSE 7x20
Engine Speed: RPM	1500
Fuel Tank Capacity (l)	630
Fuel Consumption Standby (l/hr)	134.0
Fuel Consumption Prime (l/hr)	123.0
Fuel Consumption 75% (l/hr)	90.0
Fuel Consumption 50% (l/hr)	61.0

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

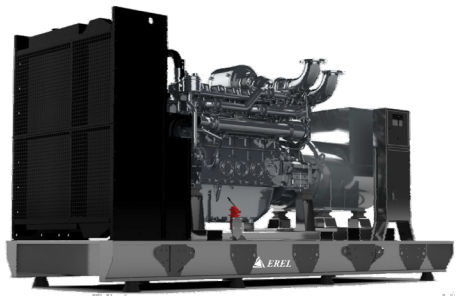
Dimensions and Weights	Length (mm)	Width (mm)	Height (mm)	Weight (Kg) Dry	Wet
Open Set	3700	1410	1970	4120	TBA
Canopied Set	4900	2170	2463	6460	TBA





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

MP600EP



Engine Data		
Engine Model		2806A-E18TAG1A
No. of Cylinders		6 vertical
Alignment		in-line
Cycle		4 stroke
Bore	mm (in)	145 (5.7)
Stroke	mm (in)	183 (7.2)
Induction		TC AA
Cooling Method		Water-cooled
Governing Type		Electronic
Governing Class		G2
Compression Ratio		14.5 : 1
Displacement	L (cu.in)	18.1 (1104)
Moment of Inertia	kg m²	7.05
Voltage	VDC	24 VDC
Ground		Negative
Battery Charger Amps		5
Engine Weight Dry	Kg (lb)	2050 (4519)
Engine Weight Wet	Kg (lb)	2100 (4629)

Fuel System		
Recommended Fuel		Class A2 Diesel
Fuel Consumption Prime (110%)	l/hr	134.0
Fuel Consumption Prime (100%)	l/hr	123.0
Fuel Consumption Prime (75%)	l/hr	90.0
Fuel Consumption Prime (50%)	l/hr	61.0
Fuel Consumption Standby (110%	l/hr	N.A.
Fuel Consumption Standby (100%	l/hr	134.0
Fuel Consumption Standby (75%)	l/hr	99.5
Fuel Consumption Standby (50%)	l/hr	68.0
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)	61
Heat Radiation to Room*: Prime	kW	65
Heat Radiation to Room*: Standby	kW	72
Radiator Fan Load	kW	9
External Restriction to Airflow	Pa	125

Engine Performance Data		
Engine Speed	rpm	1500
Gross Engine Power Prime	kW (hp)	540 (724)
Gross Engine Power Standby	kW (hp)	593 (795)
BMEP Prime	kPa (psi)	2381 (345.4)
BMEP Standby	kPa (psi)	2615 (379.3)

Lubrication System		
Oil Filter Type		Spin-on, Full flow
Total Oil Capacity	(l)	62
Oil Pan Capacity:	(l)	53
Oil Type		SAE 15W40
Oil Cooling Method		Water-cooled

Air System		
Combustion Air Flow Prime	m³/min	34
Combustion Air Flow Standby	m³/min	36
Max. Combustion Air Intake Restri	kPa	6,4

Exhaust System		
Maximum Allowable Back Pressur	kPa	6.9
Exhaust Gas Flow: Prime	m³/min	96
Exhaust Gas Flow: Standby	m³/min	104
Exhaust Gas T°: Prime	°C	571
Exhaust Gas T°: Standby	°C	571

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

Alternator Operating Data		
Overspeed	rpm	2250
Voltage Regulation: (Steady state)	%	±1.0
Total Harmonic content	%	5
Short Circuit Capacity	%	300
Reactance (Xd)	%	288
Reactance (X'd)	%	15
Reactance (X"d)	%	11

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