

**MARTIN POWER**  
**MP 100 O**  
**BASE GENSET**



**Output Ratings**

Prime power - PRP	100 kVA / 80 kW
Standby power - ESP	110 kVA / 88 kW
Current	144 A
Voltage	400 V / 230 V
Frequency	50 Hz
Voltage system	TN-S

**Prime power**

These ratings are applicable for supplying continuous electrical power. There is no limitation to the hours of operation and this model can supply 10% overload power for 1 hour in 6 hours

**Standby power**

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. In this rating max 500 hours per year is allowed with maximum continuous work for 300 hours

**Basic informations**

Engine brand	VOLVO
Engine model	TAD531GE
Emmissions limit	stage II
Speed	1500 min-1
Control panel current	60 A / 160 A / 160 A
AMF1 / AMF5 ,M1 ,P1 / ATS	
Standard fuel tank capacity	200 l

**Dimmensions and weights**

Length (L)	TBD
Width (W)	TBD
Height (H)	TBD
Height with CP*(HCP)	TBD
Weight without CP*	TBD

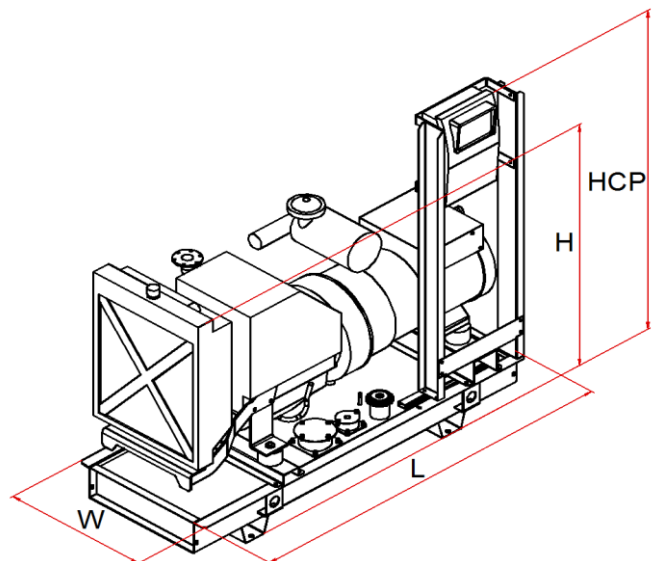
\* Control panel

**Available alternators**

Meccalte	ECP34-2S/4
Sincro	SK 225 ML
Marelli	MJB 225 MA 4
Weg	202AIVJ



- TBD - To be defined later
- All pictures are for informational purposes only
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**Genset details**

Consumption at PRP	22,5 l
Consumption at 75 % of PRP	16,8 l
Consumption at 50 % of PRP	11,6 l
Consumption at 25 % of PRP	6,7 l
Battery voltage	12 V
Battery	110 Ah

**Standard scope of supply**

<b>Engine</b>	4 stroke diesel engine
	Engine harness
	Radiator with fan
	Air filter
	Intercooler
	Turbocharger (for turbocharged engines)
	Charging alternator
	Oil cooler
	Oil filter
	Fuel filter
	Fuel supply pump
	Oil draining valve
	Starter
<b>Alternator</b>	Self regulation system
	Self excitation system
	Synchronous
	Single bearing
	Protection IP 21
	Automatic voltage regulator
	Brushless
	Flexible connection disk + housing
<b>Base frame</b>	Steel base frame
	Flexible antivibration mounting
	Integrated fuel tank
	Fuel level sensor
	Fuel filling cap with ventilation
<b>Starting accumulator</b>	
	Counter flange, sealing, set of connection material
	Initial filling of oil and coolant
	Standard factory load test
	Operation and maintenance manual

**Engine details**

Prime power - PRP	87,6 kW
Standby power - ESP	97 kW
Intake	turbocharged with intercooler
Speed governor	mechanical
Cylinders	4L
Displacement	4,76 dm <sup>3</sup>
Air requirements for intake	5,7 m <sup>3</sup> /min
Air requirements for cooling	96 m <sup>3</sup> /min
Max. back pressure at intake	3,5 kPa
Thermic power - cooling	59 kW
Thermic power - irradiated	16 kW
Exhaust gas flow	16,7 m <sup>3</sup> /min
Max. back pressure at exhaust	5 kPa
Max. exhaust temperature	544 °C
Performance class	TBD
Specific fuel consumption	218 g/kWh
Engine oil volume	13 l
Coolant volume	19,7 l

**Available additions**

Control panel	MP Manual
	MP Automatic
	MP Parallel
	MP ATS
Canopy	95 LWA (70dB/7m)
	90 LWA (65dB/7m)
Container	TBD
Industrial exhaust silencer -20 dB	DN 70
Residential exhaust silencer -30dB	DN 70

**Basic options**

Retention bath	
Increased fuel tank	560 l
Increased IP Protection	
Front air output for canopy	
Electronic speed governor	
Homologized chassis for road transport	
Separate storage tank	
Automatic fuel filling device (AFD)	

Lot more options available

**Canopy - 95 LWA (70 dB at 7 m)**

Side and back doors with lockers

Side and/or back air inlet with jalousies

Top air outlet

Position of exhaust silencer in canopy

Red (RAL3000) + Black (RAL9005) color of canopy

Length (L) 2725 mm

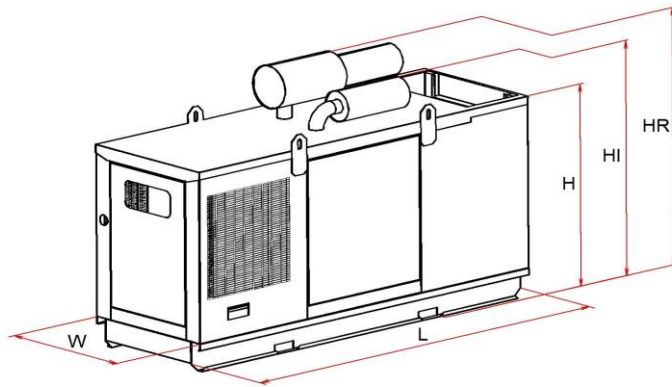
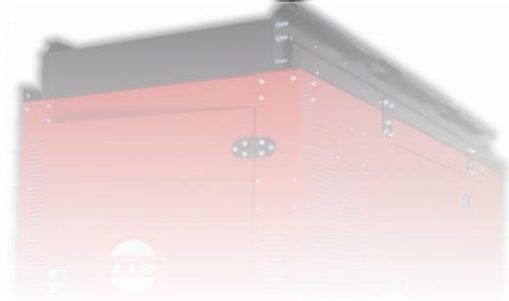
Width (W) 1135 mm

Height (H) 1845 mm

Height with industr. silencer (HI) -

Height with resid. silencer(HR) -

Weight without control panel and exhaust silencer TBD



**Canopy - 90 LWA (65 dB at 7 m)**

Side and back doors with lockers

Side and/or back air inlet with jalousies

Top / side air outlet

Red (RAL3000) + Black (RAL9005) color of canopy

Retention bath

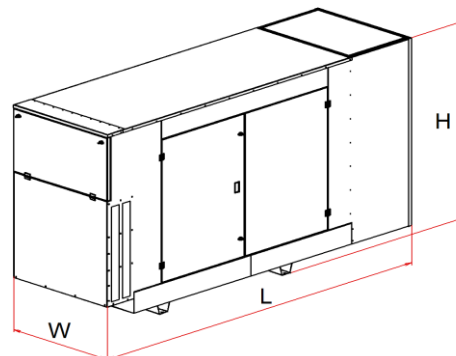
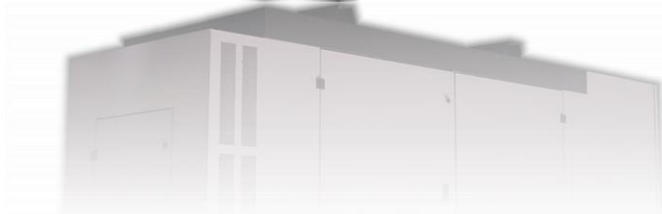
Exhaust silencer inside of canopy

Length (L) TBD

Width (W) TBD

Height (H) TBD

Weight without control panel and exhaust silencer TBD



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