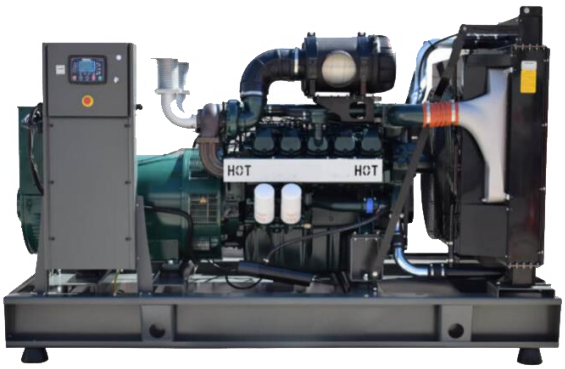
MIF-DH 185
134 kW Prime Power

MIF PLUS INTERNATIONAL DANISMANLIK HIZMETLERI A.S.
KAVAKLI MAH. YEŞILYURT CAD. NO:15/2,
IC KAPI NO: 11, BEYLIKDÜZÜ / ISTANBUL



Group		Standby output	Prime output
Power	kVA	185	168
Power	kW	148	134
Engine Speed	rpm	1500	
Standard Voltage	V	400 / 230	
Power Factor	Cos Q	0,8	

STANDBY POWER RATING (ESP): ESP is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no circumstances shall the engine be allowed to operate in parallel with the public utility at the Standby Power rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered as an emergency.

PRIME POWER RATING (PRP): Applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

- **UNLIMITED TIME RUNNING PRIME POWER (ULTP):** PRP (Prime Power) is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.
- **LIMITED TIME RUNNING PRIME POWER (LTP):** LTP (Limited Time Prime Power) is available for a limited number of hours in a nonvariable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Continuous Power rating.

CONTINUOUS POWER RATING (COP): COP is the power that the engine can continue to use under the prescribed speed and the specified environment condition in the normal maintenance period stipulated in the manufacturing plant. And Continuous Power is applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.

PAY ATTENTION to the points below in picking and using the generator:
* Generators can work on Continuous Power at 70% of Prime Power value if only all maintenances are done on time with original spare parts and high-quality oils that manufacturer advice.
* Generators should not operate below 50% of Prime Power value. In such a case, the engine will burn excessive oil and eventually have irreparable damage.

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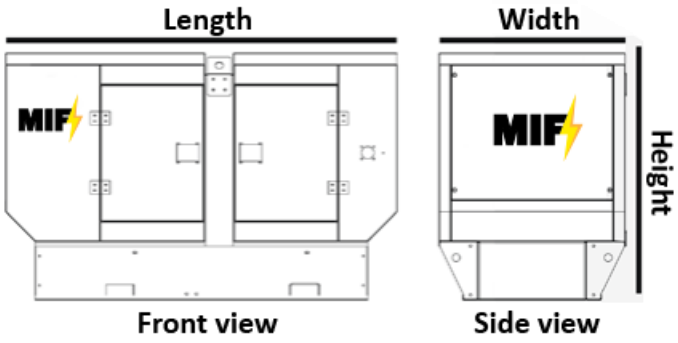
ENGINE SPECIFICATIONS

Mark:		HYUNDAI
Model:		P086TI-1
Standby:	kW	164
Prime:	kW	149
Cylinder Displacement:	Lt	8,071
Number of Cylinder/Type:		6, in-line
Bore x Stroke:	mm X mm	111X139
Compression Ratio:		16.4:1
Governor Type:		Electronic
Aspiration:		Turbocharged Intercooler
Injection Type:		Direct Injection
Cooling System:		Liquid Cooled
Voltage:	V	24
Battery Capacity:	Ah	1x100

ALTERNATOR SPECIFICATIONS

Output Voltage:	V	230/400
Frequency:	Hz	50
Automatic Voltage Reg.:	±%	0,5
Phase:		3
Pole:		4
Overload:		1 hour at 110%
Voltage Regulation:		±1%
Power Factor:	Cos Q	0,8
Warning System:		Self-Alert
Total Harmonic Losing:		≤3%
Connection Type:		Star
Protection Class:		IP 23
Isolation Class:		H

Fuel Consumption:	100% lt/h	35,4
Fuel Consumption:	75% lt/h	26,7
Fuel Consumption:	50% lt/h	18,7
Fuel Tank:	Lt	200
Oil Capacity:	Lt	16
Cooling Liquid Capacity:	Lt	44
Linear dimensions (LxWxH):	mm	3100x1100x1930



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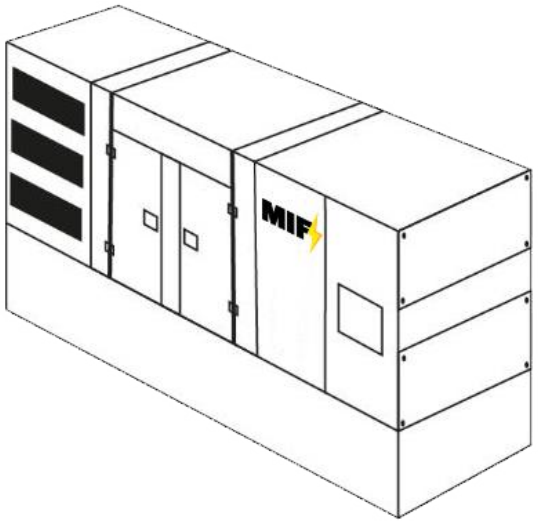
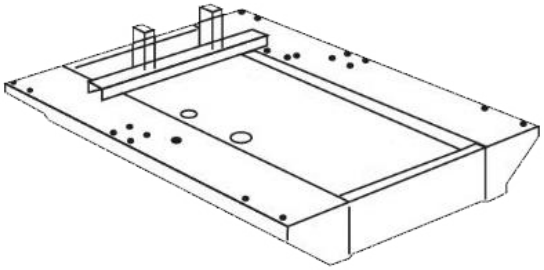


CANOPY

Generator chassis are manufactured from steel with a special modular design. The fuel tank is mounted on the cassis. Engine alternator and radiator connections are made with vibration wedges and vibration is minimized. Special chassis and fuel tank designs can be made in line with the demands.

CHASSIS PROPERTIES
Emergency Stop Button
Transparent Control Window
Special Sound Insulation
Exhaust Silencer
Electrical Powder Paint Resistant to Corrosion and Rusting



CONTROL SYSTEM

Generator control panels are durable panels that are easy to use and it can be updated with secure software. It can be remotely controlled with ETHERNET and GPRS optionally. The panel body is made of steel sheet and painted with electrostatic powder paint. Control panel electronics have an isolated and waterproof design.

As standard we use ALM / DATAKOM control panels, but we can offer an option from ComAp.

CONTROL SYSTEM PROPERTIES
LCD Screen Automatic Control System
Remote monitoring possibility
Multifunctional business opportunity
Multi language support
Programable over USB, RS-232 and GSM

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