

**Modasa**, company leading in the manufacture of generator sets, presents its product range.

## Description Genset:

<b>Model name</b>	MP-180EI
<b>Engine</b>	PERKINS 1106D-E70TAG4 EPA Tier 3
<b>Alternator</b>	STAMFORD UCI 274G
<b>Controller</b>	Electronic
<b>Phases</b>	Three-phase/ Single-phase



**Note:** referential image, may vary depending on accessories

## Genset Rating ( $\leq 3300$ famsl):

Engine	Alternator	Power		Voltage	Phase	Freq.	PF	Amps.
		Prime power	Stand By Power					
1106D-E70TAG4	UCI 274G	164 KW / 205 KVA	174.8 KW / 218.5 KVA	208V	3ph	60Hz	0.8	606 A
1106D-E70TAG4	UCI 274G	167.1 KW / 208.9 KVA	184.8 KW / 231.1 KVA	480V	3ph	60Hz	0.8	278 A
1106D-E70TAG4	UCI 274G	123.4 KW / 123.4 KVA	134.5 KW / 134.5 KVA	240V	1ph	60Hz	1.0	560 A

## Power definitions:

**Prime Power:** Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation.

**Standby Power:** Power available at variable load in the event of main power network failure. No overload is permitted.

The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528.

## Codes & Standards:

The Generator set is designed and manufactured in a facility certified to ISO 9001 standards

Engine: ISO 3046, BS 5514 DIN 6271

Alternator: BS5000, VDE 0530, NEMA MG1-32, IEC34, CSAC22,2-100, ASI 1359

Genset: ISO 8528



## General Specifications:

### Engine:

<b>Model</b>	1106D-E70TAG4	<b>System Voltage</b>	12V
<b>Cylinders</b>	6 in line	<b>Frequency</b>	60Hz
<b>Governor type</b>	Electronic	<b>Coolant air flow</b>	282 m3/min
<b>Cycle</b>	4 Stroke	<b>Combustion air flow</b>	15.4 m3/min
<b>Aspiration</b>	Turbocharged aftercooled	<b>Exhaust gas flow</b>	34.3 m3/min
<b>Fuel</b>	Diesel	<b>Exhaust gas temperature</b>	509 °C
<b>Combustion system</b>	Direct injection	<b>Displacement</b>	7010 cc
<b>Cooling system</b>	Water	<b>Compression ratio</b>	16.8:1
<b>Bore</b>	105.0 mm	<b>Lubricating system capacity</b>	17.5 liters
<b>Stroke</b>	135.0 mm	<b>Coolant system capacity</b>	21.0 liters
<b>Fuel consumption (gallon per hour)</b>			
<b>Speed Engine</b>	1800 RPM		
<b>Stand by Power</b>	13.8 gallon per hour		
<b>Prime Power</b>	12.8 gallon per hour		
<b>75% Prime Power</b>	10.2 gallon per hour		

### Alternator:

<b>Model</b>	UCI 274G	<b>Number of poles</b>	04
<b>Insulation system</b>	Clase "H"	<b>Power factor</b>	0.8
<b>Excitation system</b>	Self-excited	<b>Frequency</b>	60Hz
<b>A.V.R voltage regulation</b>	AS440 $\pm$ 1.0%	<b>Winding number</b>	Winding 311
<b>Protection</b>	IP 23	<b>Telephone interference factor</b>	< 75

## Enclosure Features Genset:

- ◇ Heavy duty steel
- ◇ Standard sound attenuation foam
- ◇ Critical residential silencer included
- ◇ Easy Access for Maintenance
- ◇ Oil & Coolant Drain Ports
- ◇ Direct flexible engine-alternator coupling
- ◇ Structural steel frame with rubber anti-vibration dampers
- ◇ 246 Gallon double wall sub base fuel tank
- ◇ Tank capacity for 24 hours of autonomy @ 75% prime
- ◇ 3 pole manual circuit breaker
- ◇ 12V battery, connection cables, battery holder
- ◇ 12V/3A battery charger in control panel
- ◇ Electric fuel level meter
- ◇ Emergency stop button
- ◇ Manuals and electrical diagrams in digital

## Controller Data:

Equipped with the latest electronic digital control module DSE 6320, it allows the start, control, protection and stop of the generator set in manual and automatic modes. Makes automatic transfer.

### Measurements

- ◇ Current of the three phases L1, L2, L3
- ◇ Voltage of the three phases L - L and L - N
- ◇ Energy demand KWh, KVAh, KVArh
- ◇ Active Energy KVAh
- ◇ Power factor
- ◇ Frequency
- ◇ Hours of operation
- ◇ Memory of the last 250 events, description, date and time
- ◇ Active Power KW
- ◇ Reactive Power KVA
- ◇ Oil pressure
- ◇ Coolant temperature
- ◇ Generator phase sequence.
- ◇ Turning speed
- ◇ Battery voltage

### Protections

- ◇ Alarm for maintenance activated configured
- ◇ High engine temperature
- ◇ Low/High frequency
- ◇ Low oil pressure
- ◇ Low/High battery voltage
- ◇ Low/High generator voltage
- ◇ Boot failure
- ◇ Stop failure
- ◇ Negative phase sequence fault
- ◇ Over current fault
- ◇ Overload failure
- ◇ Emergency stop

## Enclosed Genset Dimensions:

Noise Level  
referencial @ 23ft

Máximo  
74 + 2 dBA

Ambient  
50 dBA



<b>Lenght</b>	134.2 in
<b>Width</b>	52.7 in
<b>Height</b>	83.3 in (rain cap)
<b>Weight</b>	5865 lbs
<b>Fuel tank</b>	246 gallon (double wall)
<b>Ø Esc.</b>	5"

**Note:** referential values, request more detail with dimensional drawing