

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

Description Genset:

Model name	MP-150EI
Engine	PERKINS 1106D-E70TAG3 EPA Tier 3
Alternator	STAMFORD UCI 274F
Controller	Electronic
Phases	Three-phase/ Single-phase



Note: referential image, may vary depending on accessories

Genset Rating (≤ 3300 famsl):

Engine	Alternator	Power		Voltage	Phase	Freq.	PF	Amps.
		Prime power	Stand By Power					
1106D-E70TAG3	UCI 274F	144.5 KW / 180.6 KVA	154 KW / 192.5 KVA	208V	3ph	60Hz	0.8	534 A
1106D-E70TAG3	UCI 274F	145.4 KW / 181.8 KVA	160.7 KW / 200.9 KVA	480V	3ph	60Hz	0.8	242 A
1106D-E70TAG3	UCI 274F	108.8 KW / 108.8 KVA	118.6 KW / 118.6 KVA	240V	1ph	60Hz	1.0	494 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:

Model	1106D-E70TAG3	System Voltage	12V
Cylinders	6 in line	Frequency	60Hz
Governor type	Electronic	Coolant air flow	282 m3/min
Cycle	4 Stroke	Combustion air flow	15.3 m3/min
Aspiration	Turbocharged aftercooled	Exhaust gas flow	31.3 m3/min
Fuel	Diesel	Exhaust gas temperature	440 °C
Combustion system	Direct injection	Displacement	7010 cc
Cooling system	Water	Compression ratio	16.8:1
Bore	105.0 mm	Lubricating system capacity	17.5 liters
Stroke	135.0 mm	Coolant system capacity	21.0 liters
Fuel consumption (gallon per hour)			
Speed Engine	1800 RPM		
Stand by Power	12.1 gallon per hour		
Prime Power	11.2 gallon per hour		
75% Prime Power	9.2 gallon per hour		

Alternator:

Model	UCI 274F	Number of poles	04
Insulation system	Clase "H"	Power factor	0.8
Excitation system	Self-excited	Frequency	60Hz
A.V.R voltage regulation	AS440 $\pm$ 1.0%	Winding number	Winding 311
Protection	IP 23	Telephone interference factor	< 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
- ◇ 221 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
73 + 2 dBA

Ambient
50 dBA



Lenght	134.2 in
Width	52.7 in
Height	80.7 in (rain cap)
Weight	5490 lbs
Fuel tank	221 gallon (double wall)
Ø Esc.	5"

Note: referential values, request more detail with dimensional drawing