Generator Set MP-28I

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

Description Genset:

Model name	*MP-28I*
Engine	*PERKINS 404D-22TG Tier 4 interim*
Alternator	*STAMFORD S0L2-P1*
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					
404D-22TG	S0L2-P1	25.4 KW / 31.7 KVA	27.8 KW / 34.8 KVA	208V	3ph	60Hz	0.8	97 A
404D-22TG	S0L2-P1	25.8 KW / 32.2 KVA	28.4 KW / 35.5 KVA	480V	3ph	60Hz	0.8	43 A
404D-22TG	S0L2-P1	22 KW / 22 KVA	24.2 KW / 24.2 KVA	240V	1ph	60Hz	1.0	101 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

UQ-Power
40500 IH 10 W
Boerne, TX 78006

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Generator Set MP-28I

General Specifications:

Engine:

Model	404D-22TG
Cylinders	4 in line
Governor type	Electronic
Cycle	4 Stroke
Aspiration	Turbocharged
Fuel	Diesel
Combustion system	Indirect injection
Cooling system	Water cooled
Bore	84.0 mm
Stroke	100.0 mm

Fuel consumption (gallon per hour)

Speed Engine	1800 RPM
Stand by Power	2.5 gallon per hour
Prime Power	2.2 gallon per hour
75% Prime Power	1.6 gallon per hour

System Voltage	12V
Frequency	60Hz
Coolant air flow	56 m3/min
Combustion air flow	2.5 m3/min
Exhaust gas flow	7.5 m3/min
Exhaust gas temperature	530 °C
Displacement	2216 cc
Compression ratio	23.3:1
Lubricating system capacity	10.6 liters
Coolant system capacity	9.32 liters

Alternator:

Model	S0L2-P1
Insulation system	Clase “H”
Excitation system	Self-excited
A.V.R voltage regulation	AS540 ± 1.0%
Protection	IP 23

Number of poles	04
Power factor	0.8
Frequency	60Hz
Winding number	Winding 311
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
◊ 49 Gallon double wall sub base fuel tank
◊ Tank capacity for 29 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

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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 KVAr
◊ 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	Máximum	Ambient
	65 + 2 dBA	50 dBA

Lenght	89.0 in
Width	42.9 in
Height	57.8 in (rain cap)
Weight	2200 lbs
Fuel tank	49 gallon (double wall)
Ø Esc.	3”

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

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