

Generator Set MF-70I

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

Genset Description:

Model name	MFI-70I
Engine	FPT F34ETZK02.A73 (EPA Tier 4F)
Alternator	STAMFORD UCI 224F
Controller	Electronic
Phases	Three-phase/ Single-phase
Voltage Selector	208V-480V/ 240V



Note: reference image, may vary depending on accessories

Genset Rating (≤ 3300 famsl):

Engine	Alternator	Power		Volt.	Phase	Freq.	PF	Max. Current.
		Prime power	Stand By Power					
F34ETZK02.A73	UCI 224F	72.0 KVA / 57.6 KW	79.2 KVA / 63.4 KW	208V	3ph	60Hz	0.8	220 A
F34ETZK02.A73	UCI 224F	72.5 KVA / 58.0 KW	79.8 KVA / 63.9 KW	480V	3ph	60Hz	0.8	96 A
F34ETZK02.A73	UCI 224F	67.5 KVA / 54.0 KW	74.2 KVA / 59.4 KW	240V	1ph	60Hz	1.0	248 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	F34ETZK02.A73	System Voltage	12V
Cylinders	4 in line	Frequency	60Hz
Governor type	ECU	Oil consumption	0.25% fuel consumption
Cycle	4 Stroke	Displacement	207.5 in3
Aspiration	Turbocharged Aftercooled	Compression ratio	17:1
Fuel	Diesel	Lubricating system capacity	2.50 gallons
Combustion system	Direct injection	Coolant system capacity	2.90 gallons
Cooling system	Water cooled		
Bore	3.9 in		
Stroke	4.3 in		
Fuel consumption (gallon per hour)			
Speed Engine	1800 RPM	Aftertreatment system	
Stand by Power	4.8 gallon per hour	Aftertreatment type	DOC/SCR
Prime Power	4.3 gallon per hour	Aftertreatment configuration	Remote ATS
75% Prime Power	3.3 gallon per hour	DEF tank capacity	5.2 gallon

Alternator:

Model	UCI 224F	Number of poles	04
Insulation system	Class "H"	Power factor	0.8
Excitation system	Separately excited (PMG)	Frequency	60Hz
A.V.R voltage regulation	MX341 ± 1.0%	Winding number	Winding 311
Protection	IP 23	Telephone interference	< 2%

Features Genset:

- ◇ Enclosure heavy duty steel
- ◇ Enclosure center lifting point, External fuel and DEF filling
- ◇ Standard sound attenuation foam, Oil & Coolant Drain Ports
- ◇ Direct flexible engine-alternator coupling
- ◇ Structural steel frame with rubber anti-vibration dampers
- ◇ 105 Gallon double wall sub base fuel tank
- ◇ Capacity for 30 hours of autonomy at 75% load prime
- ◇ ABB 250A 3 pole manual circuit breaker
- ◇ Voltage Selector Krauss & Naimer position (Y-YY-Z)
- ◇ Lockable lug box and Cam-Lock distribution panels
- ◇ Convenience receptacles with individual breakers
 - (2) 120V 20 Amp GFCI duplex outlets - (Nema 5-20R type)
 - (3) 125/250V 50 Amp, 3 pole, twist lock (Non-Nema 6369)
- ◇ 12V battery, connection cables, battery holder
- ◇ 12V/3A battery charger in control panel
- ◇ Battery disconnect switch, electric fuel level meter
- ◇ Emergency stop switch located on outside of enclosure
- ◇ Manuals and electrical diagrams in digital



Distribution panel (side)

Controller Data:

Equipped with the latest electronic digital control module DSE 7320, 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
reference @ 23ft

Máximo
78 + 2 dBA

Ambient
50 dBA

Lenght 113.1in

Width 45.3 in

Height 72.3 in

Weight 5683 lbs (dry) (TBC)

Fuel tank 105 gallons (double wall)

Ø Esc. 2.5 in

Note: reference values, request more detail with dimensional drawing

Application images:



Connection Cam-Lock Standard



Control panel and breaker (rear side)



Lockable external fuel fill