

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

## Genset Description:

MH-45IT4A Model name

HATZ 4H50TIC (EPA Tier 4F) **Engine** 

STAMFORD S1L2-R1 **Alternator** 

Controller Electronic

**Phases** Three-phase/ Single-phase

208V-480V/240V Voltage Selector

Note: reference image, may vary depending on accessories



# Genset Rating (≤ 3300 famsl):

	Engine	Alternator	Power		Volt.	Phase	Freq.	PF	Max.
	Engine		Prime power	Stand By Power	voit.	riiase	rreq.		Current.
	4H50TIC	S1L2-R1	44 KVA / 35 KW	49 KVA / 39 KW	208V	3ph	60Hz	0.8	135 A
	4H50TIC	S1L2-R1	44 KVA / 35 KW	49 KVA / 39 KW	480V	3ph	60Hz	0.8	59 A
1	4H50TIC	S1L2-R1	34 KVA / 34 KW	37 KVA / 37 KW	240V	1ph	60Hz	1.0	154 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







EGR/DOC

# General Specifications:

## Engine:

12V System Voltage Model 4H50TIC Frequency 60Hz Cylinders 4 in line **ECM** Displacement 119.1 in3 Governor type 4 Stroke Cycle Compression ratio 17.5:1 Turbocharged **Aspiration** Lubricating system capacity 3.30 gallons **Fuel** Diesel Coolant system capacity 1.84 gallons

Combustion systemDirect injectionCooling systemWater cooledBore3.31 in

 Stroke
 3.31 in

Fuel consumption (gallon per hour)

Speed Engine 1800 RPM Aftertreatment system

Prime Power2.6 gallon per hourAftertreatment type75% Prime Power1.9 gallon per hour

### Alternator:

Number of poles 04 S1L2-R1 Model Insulation system Class "H" Power factor 0.8 Frequency 60Hz Excitation system Auxiliary winding Winding number Winding 311 A.V.R voltage regulation AS440 ± 1.0%

**Protection** IP 23 **Telephone interference** < 75

## Features Genset:

- ♦ Enclosure heavy duty steel, Residential silencer included
- ♦ Enclosure center lifting point, External fuel filling
- ♦ Standard sound attenuation foam, Oil & Coolant Drain Ports
- ◊ Direct flexible engine-alternator coupling
- ♦ Structural steel frame with rubber anti-vibration dampers
- ◊ 93 Gallon double wall sub base fuel tank
- ♦ Capacity for 35 hours of autonomy at 100% 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)
  - (2) 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 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
- $\Diamond$  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

- ♦ 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 Máximum **Ambient** reference @ 23ft 60 + 2 dBA 50 dBA

> Lenght 88.9 in Width 43.3 in Height 66.9 in Weight 3053 lbs (dry)

Fuel tank 93 gallons (double wall)

Ø Esc. 3 in

Note: reference values, request more detail with dimensional drawing

# Application images:







Control panel and breaker (rear side)



Lockable external fuel fill

