

HAEDEx generator Buying Guide

Model	HG-33i	HG-65	HG-75	HG-85
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline
Winding Material	Copper	Copper	Copper	Copper
Output Voltage / Frequency	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled
Engine Displacement	208cc	420cc	460cc	520cc
Rated Current / Output Power	3.0KVA/13A	6.0KVA/27A	7.0KVA/32A	8.0 KVA/36A
Maximum Current / Output Power	3.3KVA/15A	6.5KVA/30A	7.5KVA/34A	8.5KVA/38A
DC Output	USB 5V/1A & 5V/2.1A	N/A	N/A	N/A
AC Output	2 x 16A	2 x 16A, 1 x 32A Industrial Socket	2 x 16A, 1 x 32A Industrial Socket	2 x 16A, 1 x 32A Industrial Socket
Display	Digital Voltmeter	3-in-1 Display, Voltage / Frequency / Running Time	3-in-1 Display, Voltage / Frequency / Running Time	3-in-1 Display, Voltage / Frequency / Running Time
Safety Features	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor
Fuel Tank Capacity (L)	10	25	25	25
Oil Capacity (L)	0.6	1.1	1.1	1.2
Starting System	Recoil Start	Electric Start	Electric Start	Electric Start
Accessories	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench

Model	HG-33T	HG-65T	HG-75T	HG-85T
Fuel Type	Gasoline / LPG Cylinder / Natural Gas	Gasoline / LPG Cylinder / Natural Gas	Gasoline / LPG Cylinder / Natural Gas	Gasoline / LPG Cylinder / Natural Gas
Winding Material	Copper	Copper	Copper	Copper
Output Voltage / Frequency	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled	Single-Cylinder, 4-Stroke, Air-Cooled
Engine Displacement	208cc	420cc	460cc	520cc
Rated Current / Output Power	2.7KVA/11A	6.0KVA/27A	7.0KVA/32A	8.0 KVA/36A
Maximum Current / Output Power	3.0KVA/13A	6.5KVA/30A	7.5KVA/34A	8.5KVA/38A
DC Output	N/A	N/A	N/A	N/A
AC Output	2 x 16A	2 x 16A, 1 x 32A Industrial Socket	2 x 16A, 1 x 32A Industrial Socket	2 x 16A, 1 x 32A Industrial Socket
Display	3-in-1 Display, Voltage / Frequency / Running Time	3-in-1 Display, Voltage / Frequency / Running Time	3-in-1 Display, Voltage / Frequency / Running Time	3-in-1 Display, Voltage / Frequency / Running Time
Safety Features	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor	Overload Protection, Short-Circuit Protection Low-Oil Level Sensor
Fuel Tank Capacity (L)	15	25	25	25
Oil Capacity (L)	0.6	1.1	1.1	1.2
Starting System	Recoil Start	Electric Start	Electric Start	Electric Start
Accessories	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench	1 x Oil Funnel, 1 x Spark Plug Wrench

For easier generator selection, the typical power consumption of essential household appliances available in the Iranian market is listed below:

Side-by-side refrigerator: 1,000–2,000 W / Standard refrigerator-freezer: 800 W / Compact single-door refrigerator: 500 W / Air conditioner: 1,500–5,000 W, depending on the model / Washing machine: 2,000 W / Dishwasher: 1,200–2,500 W / Microwave oven: 1,800 W / Vacuum cleaner: 1,000–1,800 W / LED TV (32–55 inches): 300 W / Laptop: 200 W / Steam iron: 1,800–2,500 W / Electric kettle or samovar: 1,500–2,000 W / Hair dryer: 1,200–1,800 W

*** The figures above are approximate and may vary depending on the specific appliance model.

IMPORTANT:

Take the diversity factor into account. During an emergency, you do not need to run all appliances simultaneously. The total power requirement is typically around 50–70% of the combined rated power of all household appliances.

Important for motor-driven loads: Air conditioners, refrigerators, water pumps, and compressors can draw 2–3 times their rated current during startup. Select a generator with sufficient starting capacity to handle this initial surge.

Generator selection guide: A 3,000 W generator is sufficient for a refrigerator, several lights, and a TV. If you also plan to operate an air conditioner, be sure to choose a generator with a higher output rating.