

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

Genset Description:

Model name	MULVE-555I
Engine	VOLVO TWD 1672GE (EPA Tier 4 final)
Alternator	STAMFORD HCI 534E
Controller	Electronic
Phases	Three-phase



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					
TWD 1672GE	HCI 534E	504.9 KWE / 631.1 KVA	555.2 KWE / 694 KVA	480V	3ph	60Hz	0.8	835 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, **UL 2200**



General Specifications:

Engine:

Model	TWD 1672GE	System Voltage	24V
Cylinders	6 in line	Frequency	60Hz
Governor type	ECM	Coolant air flow	912 m3/min
Cycle	4 Stroke	Combustion air flow	48.22 m3/min
Aspiration	Turbocharged	Exhaust gas flow	123.1 m3/min
Fuel	Diesel	Displacement	16120 cc
Combustion system	Direct injection	Compression ratio	16.8:1
Cooling system	Water cooled	Lubricating system capacity	48.0 liters
Bore	144.0 mm	Coolant system capacity	81.0 liters
Stroke	165.0 mm		
Fuel consumption (gallon per hour)		Aftertreatment system	
Speed Engine	1800 RPM	Aftertreatment type	SCR
Prime Power	34.1 gallon per hour	Aftertreatment configuration	Side of engine
75% Prime Power	25.8 gallon per hour	DEF tank capacity	43.4 gallon

Alternator:

Model	HCI 534E	Number of poles	04
Insulation system	Class "H"	Power factor	0.8
Excitation system	PMG	Frequency	60Hz
A.V.R voltage regulation	MX341 \pm 1.0%	Winding number	Winding 311
Protection	IP 23	Telephone interference	< 75

Features Genset:

- ◊ Enclosure heavy duty steel
- ◊ Includes residential silencer and flexible tube
- ◊ Standard sound attenuation foam, Oil & Coolant Drain Ports
- ◊ Standard sound attenuating foam (noise absorber)
- ◊ Direct flexible engine-alternator coupling
- ◊ Structural steel frame with rubber anti-vibration dampers
- ◊ Frame steel (no fuel tank)
- ◊ Three-pole motorized breaker for synchronism
- ◊ Batteries 12V, connection cables, battery holder
- ◊ Battery charger on the control board
- ◊ Block heater (refrigerant)
- ◊ Anticondensation heater (alternator)
- ◊ Emergency stop switch
- ◊ Manuals and electrical diagrams in digital

Controller Data:

Equipped with a DSE 8610MKII digital electronic controller for synchronism and load sharing, it allows the generator set to start, control, protect and stop. The controller monitors the level of energy required by ordering the groups to be switched off and/or started according to the required load level, in addition to automatically balancing the hours of operation of the groups to avoid excessive wear on one of them.

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
reference @ 23ft**

Máximo
84 + 2 dBA

Ambient
50 dBA

Lenght 200.78 in
Width 82.24 in
Height 117.28 in
Weight 15212 lbs aprox (dry)
Fuel tank not Include

Note: reference values, request more detail with dimensional drawing

