TECHNICAL DATA SHEET – VEGETABLE OIL GENERATOR - 33 KW

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Generator Details:

- Multi-Fuel: Runs with Straight Vegetable Oil (SVO: Canola/Rapeseed, soy, sunflower, palm, jatropha, algae, etc) or Waste Vegetable Oil (WVO such as cooking oil), plus Biodiesel, and common Diesel fuel.
- Suitable as backup system for off-grid systems, can be integrated into solar, wind, Hydro power plants.
- SUPERSILENCED (70 dB(A)±3 at 7 mt.): Soundproof enclosure, soundproof material, internal silencer.
- Constructed for Continuous long-term Operation: Engine/alternator monoblock unit coupled through flexi-disc couplings, installed on a welded steel baseframe, complete with antivibration mountings.
- Doors are 20/10 sheet steel, inox-steel handles and hinges, external fuel tank cap w/ key, lifting hooks.
- Easy to operate by means of fully automatic PLC-control, supports local or remote control.
- Diesel tank: 26.4 Gallons (100 litres), vegetable oil tank connected externally (not included)
- Fuel consumption at 75% of load: approx. 1.6 Gal/Hour (6.1 L/h)
- Dimensions, In: 83 L x 36 W x 46 H (MM: 2100 L x 900 W x 1170 H)
- Industrial painting in RAL 1004 (golden yellow)
- Weight: 2,205 Pounds (1,000 Kilos)
- Lead acid batteries: 12 V / 100 Ah

Electric Start Panel

- Earth fault device
- Low fuel level switch
- Emergency stop button
- Magnetothermic circuit breaker
- Voltmeter + phase selector switch
- Ammeter, frequency meter, Hours run meter
- Socket 32A 230V, Socket 32A 400V, Socket 63A 400V
- Multiple Engine safety devices: high water temperature, low oil pressure, battery charger fault

Technical Data:

Equipment Specification (according ISO 8528/1)

- Frequency: 50 Hz or 60 Hz (Specify at Order)
- Voltage available to the terminals: 400/230 V
- Standby power at cosφ 0.8: 33 kVA
- Prime power at cosφ 0.8: 30 kVA
- Standby power at cosφ 0.8: 26 kW
- Prime power at cosφ 0.8: 24 kW

Engine

- 4 stroke motor, water cooled, intercooled
- Brand and model: PERKINS 1103C-33
- Emission Standard: Stage 2
- Displacement: 3,300 cc
- Governor: Mechanical
- Max power: 41.6 HP
- R.P.M.: 1,500
- Cylinders: 3

Alternator

- Synchronous generator with electronic governor
- Model: MECC-ALTE ECO28 VL/4 (or similar)
- Continuous power: 50 or 60 Hz, 30 kVA
- Automatic Voltage Regulator (AVR)
- Stator/rotator insulation: class H
- Protection Level: IP23
- Poles: 4

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