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 (68 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: 18.5 Gallons (70 litres), vegetable oil tank connected externally (not included).
- Fuel consumption at 75% of load: approx. .75 Gal/Hour (2.8 L/h).
- Dimensions, In: 70 L x 30 W x 44 H (MM: 1750 L x 750 W x 1100 H).
- Weight: 1,433 Pounds (650 Kilos).
- Lead acid batteries: 12 V / 85 Ah.

Electric Start Panel:

- Earth fault device
- Low fuel level switch
- Emergency stop button
- Magnetothermic circuit breaker
- Socket 32A 230V, Socket 32A 400V
- Voltmeter + phase selector switch
- Ammeter, Frequency meter, Hours run meter
- 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: 14.5 kVA
- Prime power at cosΦ 0.8: 13.3 kVA
- Standby power at cosΦ 0.8: 11.6 kW
- Prime power at cosΦ 0.8: 10.6 kW

Engine:

- 4 stroke motor, water cooled, intercooled
- Brand and model: Perkins 403D-15
- Emission standard: Stage 2
- Displacement: 1,496 cc
- Governor: Mechanical
- Max power: 18 HP
- R.P.M.: 1,500
- Cylinders: 3

Alternator:

- Synchronous generator with electronic governor
- Model: MECC-ALTE ECO3 - 2L4 (or similar)
- Continuous power: 50 or 60 Hz, 13.5 kVA
- Automatic Voltage Regulator (AVR)
- Stator/rotator insulation: class H
- Protection level: IP23
- Poles: 4

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