



Category: Power Generators

Volvo Penta TAD1344GE 450 kVA Diesel Generator

Ratings & Electrical

- Prime Power: 360 kW / 450 kVA
- Standby Power: ~396 kW / 495 kVA
- Frequency: 50 Hz
- Speed: 1500 rpm
- Voltage: 400/230 V (3-phase)
- Power Factor: 0.8 (lagging)
- Alternator Insulation: Class H
- Voltage Regulation: $\pm 1\%$

Engine / Mechanical

- Engine Model: Volvo TAD1344GE
- Configuration: 4-stroke, 6-cylinder, inline, turbocharged & aftercooled
- Displacement: 10.2 L
- Bore × Stroke: 108 mm × 130 mm
- Compression Ratio: 17.5 : 1
- Lubricating Oil Capacity: ~35 L
- Coolant Capacity: ~50 L

Fuel & Consumption

- Fuel Type: Diesel
- Fuel Consumption @100% Load: ~88 L/h
- Fuel Consumption @75% Load: ~66 L/h
- Fuel Tank Capacity: ~950 L (typical enclosure)

Cooling, Exhaust & Air

- Exhaust Gas Temperature: ~520 °C
- Exhaust Gas Flow: ~45 m³/min
- Max Exhaust Back Pressure: 10 kPa
- Cooling System: Radiator-cooled, tropical rating

Physical Dimensions & Weight

- Dimensions (L × W × H): ~3700 mm × 1800 mm × 2200 mm
- Weight (approx.): ~4000 kg (open set)

Alternator & Control

- Alternator Frame: Stamford or equivalent, Class H insulation
- Control Panel: Volvo/DeepSea electronic controller
- Features: Monitoring, protection & optional auto-start/stop