

# Volvo 265kVA standby diesel generator



## KEY SPECIFICATIONS

|                    |        |
|--------------------|--------|
| STANDBY POWER      | 265kVA |
| PRIME POWER        | 250kVA |
| PHASE              | Three  |
| DRY WEIGHT         | 3400kg |
| LENGTH             | 3400mm |
| WIDTH              | 1400mm |
| HEIGHT             | 1850mm |
| FUEL TANK CAPACITY | 600l   |

## FEATURES & BENEFITS

- Maximum 265kVA standby power at 230/400v @ 50Hz 1500rpm
- High quality and reliable six-cylinder 7.15l Volvo Penta diesel engine
- Ideal for business applications
- Silent canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger included

- Four-way protection system included
- H-specification insulation, brushless alternator with AVR provides stable output
- Easy to use digital controller with auto and manual start options
- All sets undergo a comprehensive testing/pre delivery inspection prior to delivery peace of mind of earlier of one year/1000 hour warranty
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## STANDARD GENSET SPECIFICATIONS

### ENGINE

Volvo heavy-duty diesel engine  
Six cylinder equipped with piston cooling  
Electronic governor control system  
Replaceable wet type cylinder liners  
24v DC starter and charge alternator  
Replaceable fuel filter, oil filter and dry element air filter  
Cooling radiator and fan  
Fuel connection hoses and manual sump oil drain valve  
Exhaust silencer  
Maintenance free battery including rack and cables  
Jacket water heater (as option)  
Volvo engine manual

### ALTERNATOR

Brushless, single bearing system, four poles  
Insulation class H with circuit breaker protection  
Standard degree of protection IP21  
Self-exciting and self-regulating  
AVR SX440 Included  
Screen protected and drip proof  
Stator winding with 2/3 pitch for improved harmonics  
Close voltage regulation

### CHASSIS

Steel chassis and anti-vibration pads  
Base frame design incorporates an integral fuel tank  
The generator can be lifted or carefully pushed/pulled by the base frame  
Includes diesel level sensor information to the controller

### CANOPY

Ventilation parts are designed with modular principles  
Weather resistant and lined with sound reducing foam  
All metal canopy parts are painted by powder paint  
Panel window  
Lockable doors on each side  
Easy maintenance and operation  
Easy lifting and moving  
Insulated engine exhaust system  
Exterior emergency stop push button

\*All ratings are quoted at maximum ratings at sea level and de rating will be applicable for altitude and power factor

### CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

### AUTO MAINS FAILURE CONTROL PANEL

Smartgen series automatic transfer switch module  
HGM7220 electronic controller  
Emergency stop push button  
Static battery charger  
Four-pole electrically and mechanically interlocked ATS

### GENERATING SET CONTROL MODULE HGM7220 FEATURES

This module is used to monitor a mains supply and automatically start a standby generating set  
Event logging and shutdown alarms  
STOP/RESET-MANUAL-AUTO-TEST-START

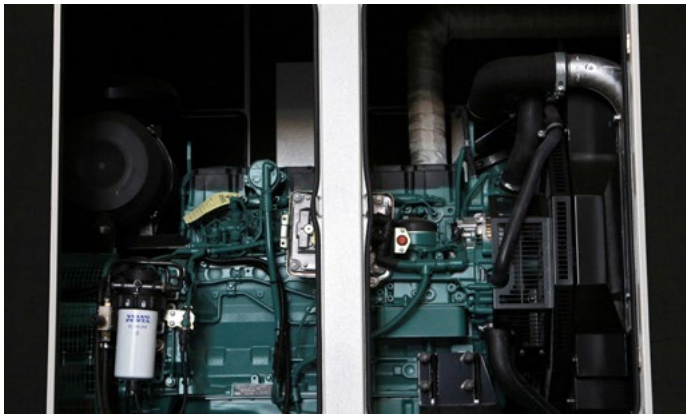
### METERING VIA LCD DISPLAY

Generator volts (L-L/L-N); mains volts (L-L/L-N)  
Generator amps (L1, L2, L3); generator (kVA and kW)  
Generator frequency; generator [cos]  
Engine hours run; plant battery (volts)  
Engine oil pressure (psi and bar)  
Engine speed (rpm)  
GSM SMS signal  
Engine temperature (°C)

### AUTOMATIC SHUTDOWN AND FAULT CONDITIONS

Under/over speed; fail to start  
High engine temperature; fail to stop  
Low oil pressure; charge fail  
Under/over generator volts; over current  
Under/over generator frequency; emergency stop  
Under/over mains frequency  
Under/over mains voltage  
Low/high battery volts

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## SPECIFICATIONS TABLE

| ENGINE SPECIFICATIONS                 |                              | ALTERNATOR SPECIFICATIONS             |                                    |
|---------------------------------------|------------------------------|---------------------------------------|------------------------------------|
| Engine make                           | Volvo                        | Standby power output                  | 265kVA                             |
| Diesel generator model                | TAD734GE                     | Prime power output                    | 250kVA                             |
| Displacement                          | 7.15l                        | Insulation class                      | H                                  |
| Cylinder bore/Stroke                  | 108mm x 130mm                | Type                                  | Brushless                          |
| Fuel system                           | EMS2 governor                | Phase and connection                  | Three phase, four wire             |
| Cylinders                             | 6                            | AVR                                   | Yes                                |
| Cylinder arrangement                  | Vertical in-line             | AVR model                             | SX440                              |
| Engine output power                   | 216kW                        | Voltage regulation                    | ± 1%                               |
| Turbocharged or normally aspirated    | Turbocharged and intercooled | Voltage                               | 230/400v                           |
| Cycle                                 | Four stroke                  | Rated frequency                       | 50Hz                               |
| Combustion system                     | Common rail                  | Voltage regulate change               | ≤ ±10% UN                          |
| Compression ratio                     | 17:1                         | Phase change rate                     | ± 1%                               |
| Fuel tank capacity                    | 600l                         | Power factor                          | 0.8                                |
| Fuel consumption 100%                 | 51.73 l/h                    | Protection class                      | IP21                               |
| Fuel consumption 75%                  | 41.72 l/h                    | Stator                                | 2/3 pitch                          |
| Fuel consumption 50%                  | 29.54 l/h                    | Rotor                                 | Single bearing                     |
| Fuel consumption 25%                  | 15.47 l/h                    |                                       |                                    |
| Oil type                              | 15W40                        | GENERAL SPECIFICATIONS                |                                    |
| Oil capacity                          | 24l                          | Structure type                        | Silent weather resistant enclosure |
| Cooling method                        | Radiator water-cooled        | Dimensions<br>Length x Width x Height | 3400mm x 1400mm x 1850mm           |
| Coolant capacity (including radiator) | 32l                          | Dry weight                            | 3400kg                             |
| Starter                               | 24v DC                       | ATS unit included                     | Yes                                |
| Governor system                       | Electronic                   |                                       |                                    |
| Engine speed                          | 1500rpm                      |                                       |                                    |

We reserve the right to change generator information without prior notice.  
Information is double checked to ensure that it is correct, however we will not be held responsible for clerical errors. [E&OE]