

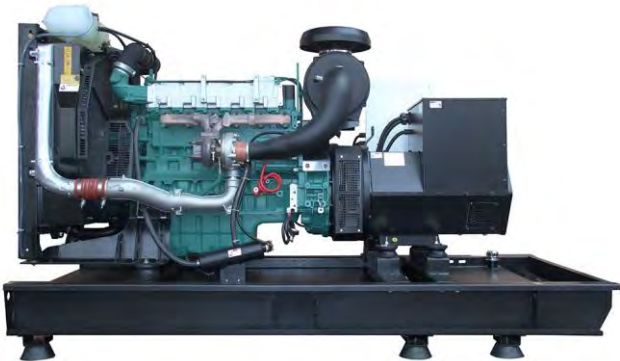
Features / Benefits

- ✓ Model available in open skid and soundproofed with galvanized rust proofed canopy
- ✓ Designed, engineered and manufactured for an optimal performance
- ✓ External access to control and power panel
- ✓ Easy operation, maintenance and power panel
- ✓ English, Russian language choice



**VOLVO
PENTA**

GENSET MODEL			RP-P100
Group	Stand by	kVA	100
		kW	80
	Prime	kVA	91
		kW	73
Diesel Engine	Manufacturer		Volvo Penta
	Origin		EU
	Model		TD531GE
	Engine RPM		1500
	Cylinder Orientation		4 in-line
	Displacement (lt)		4.41
	Bore & Stroke (mm)		108 x 130
	Compression Ratio		18:1
	Aspiration		Turbocharged
	Governor Type		Mechanic
	Cooling System		Water cooled
	Coolant Capacity (lt)		19.7
	Lubrication Oil Capacity (lt)		13
	Injection		Direct
	Frequency (Hz)		50
	Engine Power (kWm)		102
Alternator	Brand		Sincro
	Model		SK 225 MM
	Output Voltage		400/230 V
	Frequency		50 Hz.
	Automatic Voltage Reg.		± 0,25%



Prime Rating

Electrical power data available at a variable load without limits of hours per year. An overload of 10% is allowed for 1 hour of every 12 hours. In accordance with ISO 8528/1 (2005) - PRP.

Stand by rating

Electrical power data available at a variable load in an emergency in accordance with standards ISO 8528/1 (2005) - ESP. Overloads of emergency power are not allowed.

Standard reference conditions

25 C, 100 kPA and 30 % relative humidity.

Fuel Consumption Table (g/kWh)		
LOAD LEVEL	Prime Power	Standby Power
25%	259	244
50%	225	221
75%	218	217
100%	218	219

Alternator

- ✓ Four pole alternator
- ✓ Lifetime lasting greased bearing
- ✓ H class insulation
- ✓ Brushless
- ✓ 2/3 pitch
- ✓ AVR
- ✓ Incorporates electromagnetic emission suppressor in accordance with legislation
- ✓ Joining of engine and alternator through flexible disc coupling

Technical information

- ✓ Standards: EN 60034-1, IEC 60034-1, ISO 8528-3
- ✓ Protection degree: Standard is IP23
- ✓ Bearings: Bearings are dimensioned for heavy duty
- ✓ Transient features: Transient voltage drop for rated step load at 0,8 power factor is less than 18%
- ✓ Tropicalization: Standard

MODEL	SK 225 MM
Manufacturer	Sincro
Origin	EU
Voltage (V)	400/230
Frequency	50 Hz
Alternator Power (kVA)	102
Leads	6*
Excitation system	Brushless
Voltage regulator type	AVR BL4-U
Voltage regulation accuracy**	± 1%
Electromagnetic compatibility	EN 61000-6-2 - EN 61000-6-4
Short circuit current	> 300 % In for 10s
Total harmonic content***	< 2,5%
Underspeed protection	Vers. Standard - Standard vers

Regulations

The generator set has a CE Marketing that includes the following directives:

- ✓ 2006/42/EC Machinery Safety
- ✓ 2006/95/EC Low voltage
- ✓ 2004/108/EC Electromagnetic compatibility
- ✓ 2000/14/EC Noise emission of machines outdoors in soundproof generator sets

* 12 on request

** With load from 0 to 100%, speed variation from –2% to +5%, power factor 0,8 linear and balanced load

*** Line to line, at full linear and balanced rated load

Control Panel

- ✓ True RMS measurements
- ✓ ECU connection through J1939 CAN option
- ✓ J1939 ECU warnings displayed as text
- ✓ MPU input option
- ✓ Dual genset mutual standby operation
- ✓ Event logging with time stamp and measurements
- ✓ Battery backed-up real time clock
- ✓ Built in daily / weekly / monthly exerciser
- ✓ Weekly operation schedule programs
- ✓ Field adjustable parameters
- ✓ RS-232 serial port
- ✓ Free MS-Windows Remote monitoring SW
- ✓ GSM and PSTN modem support
- ✓ GSM SMS message sending on fault
- ✓ MODBUS communications
- ✓ Multiple language support

- ✓ 16 Amp contactor outputs
- ✓ 1 Amp DC semiconductor outputs
- ✓ Configurable analogue inputs: 4
- ✓ Configurable digital inputs: 7
- ✓ Configurable digital outputs: 2
- ✓ Total digital outputs: 6
- ✓ I/O expansion capability
- ✓ Plug-in connection system
- ✓ The unit records last 100 events with date-time stamp total of 18 measured parameters.



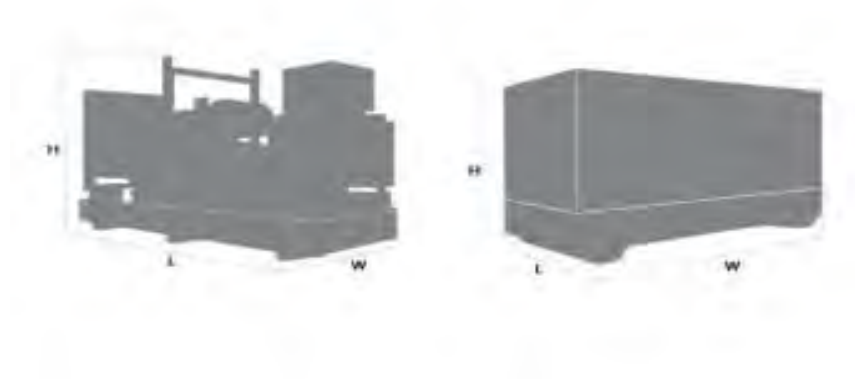
Electric Panel

Grounding system TN quick change and emergency shutdown pushbutton.

Generator set circuit breaker	3x225A *Optional	Voltage	230/400V
Battery electronic breaker	DATAKOM SMPS245 24V 5A	Frequency	50 Hz

Dimensions

Length (with canopy) cm	220 (300)
Width (with canopy) cm	110 (110)
Height (with canopy) cm	170 (180)
Weight (with canopy) kg	1450 (1970)



Optional

Mechanical

- ✓ Galvanised Retention Bund (For soundproofed Units)
- ✓ Electronic Governor
- ✓ Integrated Retention Bund in baseframe
- ✓ High Performance Fuel filter water Separator
- ✓ High range alternator
- ✓ Huge fuel tanks regarding special orders
- ✓ Synchronisation Systems
- ✓ Auxiliary Double Walled Fuel Tanks
- ✓ Connection to external fuel tank
- ✓ Automatic Fuel Systems
- ✓ Mounts-Shock Absorbers
- ✓ Earth Leakage Protection

Control panel

- ✓ Datakom D500
- ✓ Datakom D700
- ✓ ComAp AMF9
- ✓ ComAp AMF25
- ✓ SMPS 2410 24V 10A

Engine

- ✓ Electronic Governor
- ✓ Fuel, oil and air filter heaters
- ✓ Residential Exhaust -35 dB(A) (Open)
- ✓ Electronical or mechanical Oil Sump Pump
- ✓ 60 Hz.

Alternator

- ✓ Alternator excitation type: AREP, PMI or PMG
- ✓ Anti-condensation heaters
- ✓ Protection System 2 or 4
- ✓ Special AVR

AMF Synchronizing control panel

- ✓ Datakom D700
- ✓ Woodward Easygen 3200

Trailer - Genset Trailer

Our trailers are produced as single-axle, two-axle and four-axle types for heavy and light tonnage capacities and absolutely appropriate to vehicle regulations.