

## 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



GENSET MODEL		RP-V165	
Group	Stand by	<i>kVA</i>	165
		<i>kW</i>	132
	Prime	<i>kVA</i>	150
		<i>kW</i>	120
Diesel Engine	Manufacturer	Volvo	
	Origin	SWEDEN	
	Model	TAD731GE	
	Engine RPM	1500	
	No of Cylinder / Configuration	6 / IN LINE	
	Displacement (lt)	7,15	
	Bore / Stroke (mm)	108 / 130	
	Cycle	4	
	Compression Ratio	18.00: 1	
	Aspiration	Turbocharged	
	Governor Type	Mechanic	
	Cooling System	Water	
	Coolant Capacity (lt)	23,8	
	Lubrication Oil Capacity (lt)	21	
	Injection	Direct	
Speed / Frequency	1500 / 50 Hz		
Engine Gross Power (kWm)	111		
Alternator	Brand	Sincro	
	Model	SK 225 LM	
	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 (lt./h.)	
Load Level	Consumption
50%	15,80
75%	22,86
100%	30,34

# VOLVO PENTA

## 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	SK225 LM
Manufacturer	Sincro
Origin	Italy
Voltage (V)	400/230
Frequency	50 Hz
Alternator Power (kVA)	155
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.



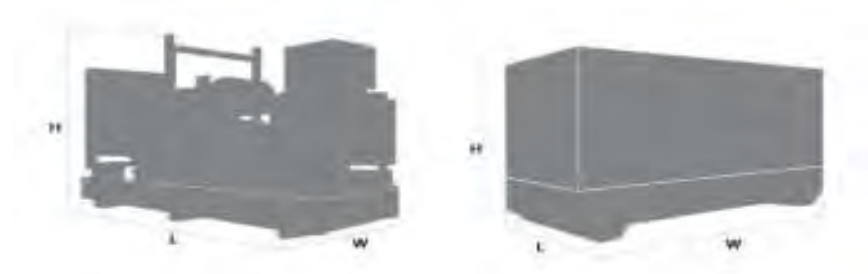
## Electric Panel

Grounding system TN quick change and emergency shutdown pushbutton.

<b>Genset Circuit breaker</b>	3P 500A *Optional	<b>Voltage</b>	230/400V
<b>Battery electronic breaker</b>	DATAKOM SMPS245 24V 5A	<b>Frequency</b>	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.	1810 (2330)



## 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

### 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.

### Engine

- ✓ Electronic Governor
- ✓ Fuel, oil and air filter heaters
- ✓ Residential Exhaust -35 dB(A) (Open)
- ✓ Electrical 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