



BUILDING GENERATORS FOR GENERATIONS



250 kVA to 750 kVA

POWERED BY
**VOLVO
PENTA**

**GREENER
SAFER
RELIABLE**

SUPERNOVA
G E N S E T S

Power Up

An ISO 9001 : 2008 Certified Company



RATING TABLES

Prime Power

1500 RPM (50 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 415 V, 0.8 PF		
		BHP	kVA	kWe
SV 250	TAD734GE	306	250	200
SV 320	TAD1341GE	382	320	256
SV 350	TAD1342GE	426	350	280
SV 380	TAD1343GE	456	380	304
SV 415	TAD1344GE	495	415	332
SV 450	TAD1345GE	541	450	360
SV 500	TAD1641GE	600	500	400
SV 600	TAD1642GE	699	600	480
SV 625	TWD1643GE	752	625	500

* Available in HE cooled version.

1800 RPM (60 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 380-460V, 0.8 PF		
		BHP	kVA	kWe
SV 250E	TAD734GE	321	250	200
SV345E	TAD1341GE	415	345	276
SV 400E	TAD1342GE	494	400	320
SV 415E	TAD1343GE	505	415	332
SV 450E	TAD1344GE	558	450	360
SV 550E	TAD1641GE	685	550	440
SV 625E	TAD1642GE	749	625	500
SV 700E	TWD1643GE	836	700	560

Maximum Standby Power

1500 RPM (50 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 415 V, 0.8 PF		
		BHP	kVA	kWe
SV 275(S)	TAD734GE	340	275	220
SV 350(S)	TAD1341GE	419	350	280
SV 380(S)	TAD1342GE	466	380	304
SV 415(S)	TAD1343GE	498	415	332
SV 450(S)	TAD1344GE	543	450	360
SV 500(S)	TAD1345GE	600	500	400
SV 550(S)	TAD1641GE	658	550	440
SV 650(S)	TAD1642GE	768	650	520
SV 700(S)	TWD1643GE	834	700	560

* Available in HE cooled version.

1800 RPM (60 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 380-460V, 0.8 PF		
		BHP	kVA	kWe
SV 275E(S)	TAD734GE	357	275	220
SV 380E(S)	TAD1341GE	456	380	304
SV 440E(S)	TAD1342GE	537	440	352
SV 450E(S)	TAD1343GE	552	450	360
SV 500E(S)	TAD1344GE	611	500	400
SV 650E(S)	TAD1641GE	768	650	520
SV 700E(S)	TAD1642GE	821	700	560
SV 750E(S)	TWD1643GE	917	750	600

Note: 230 V, 3 phase, 60Hz systems are also available on request.

Volvo Power DG Sets (Exclusively for Export)

1500 RPM (50 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 415 V, 0.8 PF		
		BHP	kVA	kWe
SV 85	TAD530GE	109	85	68
SV 100	TAD531GE	125	100	80
SV 125	TAD532GE	158	125	100
SV 150	TAD731GE	187	150	120
SV 180	TAD732GE	224	180	144
SV 200	TAD733GE	246	200	160

1800 RPM (60 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 380-460V, 0.8 PF		
		BHP	kVA	kWe
SV 90E	TAD530GE	116	90	72
SV 110E	TAD531GE	136	110	88
SV 140E	TAD532GE	166	140	112
SV 160E	TAD731GE	200	160	128
SV 200E	TAD732GE	250	200	160
SV 225E	TAD733GE	275	225	180

Note: The above ratings are only for exports. D.G sets of above ratings at 380 / 220 V, 3 phase, 0.8 PF are also available.

Power Standards

Engine performance corresponds to ISO 3046, BS 5514, DIN 6217. The technical data applies to an engine operations on a fuel with a calorific value of 42.7 MJ / kg (18360BTU / lb) and a density of 0.84 kg. / litre (7.01 lb / US gal.) Engine speed governing in accordance with ISO 3046 / IV, Class A1 and ISO 8528 Class G3. The engines may be operated upto 1500m altitude and 50 deg C, ambient temperature without deration. No deration on account of relative humidity. Power output is guaranteed within 0 to +2% at rated ambient conditions.



Rating Guidelines

PRIME POWER rating corresponds to ISO standard power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A 10% overload capability is available with this rating for one hour in every twelve hours.

MAXIMUM STANDBY POWER rating corresponds to ISO fuel stop power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks, in the event of power failure. No overload capability is available with this rating.

TECHNICAL DATA



GENSET MODEL	SV 250 / SV 275(S)	SV 320 / SV 350(S)	SV 350 / SV 380(S)	SV 380 / SV 415(S)
Engine Model	TAD734GE	TAD1341GE	TAD1342GE	TAD1343GE
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine			
No.of Cylinders & Arrangement	6 Vertical In-Line			
Governor	Electronic / EMS 2	Electronic / EMS 2.2		
Fuel System	Unit Injection System			
Bore x Stroke (mm x mm)	108 x 130	131 x 158		
Compression Ratio	17.0 : 1	18.1 : 1		
Starting System	24 V DC electric			
Lead Acid type Battery	2 Nos. 135 AH	2 Nos. 180 AH		
Fuel day tank capacity (Ltrs)	612			
Approx.coolant capacity incl.Radiator (Ltrs)	32	44		
Lub Oil Sump Capacity (Ltrs)	24	30		
Lub Oil Consumption (Ltr / hr)	0.01	0.04		
Lub.Oil Specification	SAE 15W / 40 (API CI-4, CH-4, CG-4)			
Recommended fuel specification	ASTM.D975 No.1 and 2-D, EN 590			
Bare D.G set Dimensions (L x W x H) in mm	2800 x 950 x 1580	3000 x 1100 x 1710	3150 x 1100 x 1710	
Enclosure D.G set Dimensions (L x W x H) in mm	4400 x 2000 x 2700	4577 x 2354 x 2977		
Approx. Dry Weight (Genset Only) in Kgs	2300	3100	3300	3400
Approx. Dry Weight (Genset+Enclosure) in Kgs	4100	4950	5150	5250

GENSET MODEL	SV415 / SV 450(S)	SV450 / SV 500(S)	SV500 / SV 550(S)	SV 600 / SV 650(S)	SV 625 / SV 700(S)
Engine Model	TAD1344GE	TAD1345GE	TAD1641GE	TAD1642GE	TWD1643GE
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine				
No.of Cylinders & Arrangement	6 Vertical In-Line				
Governor	Electronic / EMS 2.2		Electronic / EMS 2		
Fuel System	Unit Injection System				
Bore x Stroke (mm x mm)	131 x 158		144 x 165		
Compression Ratio	18.1 : 1		17.5 : 1	16.5 : 1	
Starting System	24 V DC electric				
Lead Acid type Battery	2 Nos. 180 AH				
Fuel day tank capacity (Ltrs)	612		916		95
Approx.coolant capacity incl.Radiator (Ltrs)	44		60		95
Lub Oil Sump Capacity (Ltrs)	30		42		
Lub Oil Consumption (Ltr / hr)	0.04		0.1		
Lub.Oil Specification	SAE 15W / 40 (API CI-4, CH-4, CG-4)				
Recommended fuel specification	ASTM.D975 No.1 and 2-D, EN 590				
Bare D.G set Dimensions (L x W x H) in mm	3150 x 1100 x 1700		3400 x 1150 x 2000	3400 x 1200 x 2000	
Enclosure D.G set Dimensions (L x W x H) in mm	4577 x 2354 x 2977		5600 x 2200 x 3025		
Approx. Dry Weight (Genset Only) in Kgs	3500	3600	3700	3900	4200
Approx. Dry Weight (Genset+Enclosure) in Kgs	6100	6300	6400	6600	6900

Note: Continuous developments in the product entitles us to change technical specifications, dimensions, scope of work etc.

GENSET MODEL	SV 85	SV 100	SV 125	SV 150	SV 180	SV 200
Engine Model	TAD530GE	TAD531GE	TAD532GE	TAD731GE	TAD732GE	TAD733GE
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine					
No.of Cylinders & Arrangement	4 Vertical In-Line			6 Vertical In-Line		
Governor	Electronic - EDC-IV (Electronic Diesel Control)					
Fuel System	Unit Injection System					
Bore x Stroke (mm x mm)	108 x 130					
Compression Ratio	18 : 1					
Starting System	24 V DC electric					
Lead Acid type Battery	2 Nos. 120 AH					
Fuel day tank capacity (Ltrs)	250		350		450	
Approx.coolant capacity incl.Radiator (Ltrs)	12.5		13	14		28.6
Lub Oil Sump Capacity (Ltrs)	9		14		24	
Lub Oil Consumption (Ltr / hr)	0.08					
Lub.Oil Specification	SAE 15W / 40 (API CI-4, CH-4, CG-4)					
Recommended fuel specification	ASTM.D975 No.1 and 2-D, EN 590					
Bare D.G set Dimensions (L x W x H) in mm	2100 x 700 x 1200			2500 x 875 x 1200		
Enclosure D.G set Dimensions (L x W x H) in mm	3800 x 1500 x 2075			4300 x 2000 x 2075		
Approx. Dry Weight (Genset Only) in Kgs	1350			2000		
Approx. Dry Weight (Genset) in Kgs	2250			3500		

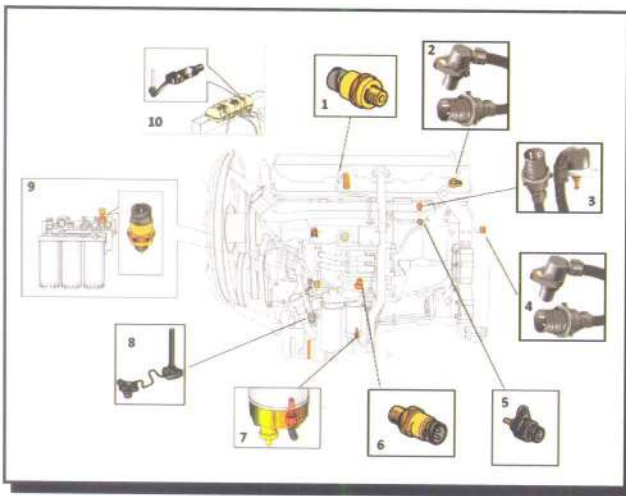
Note: The above ratings are meant for export. The weight and dimension of enclosure above are approximate only and are subject to change as per shipping convenience or the company reserve the right to make alterations in the dimension so as to accommodate them in standard or high cube containers.

VOLVO PENTA ADVANTAGES

- Linear load Vs SFC curve - substantial fuel saving at part load.
- Highly reliable & highly fuel efficient • Excellent power to weight ratio.
- High block loading capability • Extremely low operating & maintenance cost.
- Electronic engine management system • Low gaseous emission for cleaner operation.
- Compact size for easier transportation and installation • Low vibration & emissions.
- Overhead camshaft: Accurate valve timing and less mechanical part • Six cylinders in-line upto 700 kVA D.G set.

**TECHNOLOGY
WITH
IN-BUILT RELIABILITY**

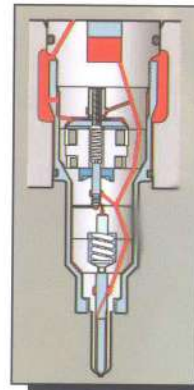




VOLVO PENTA EMS SENSORS

- 1 Crankcase pressure sensor.
- 2 Camshaft sensor.
- 3 Charge air pressure / temperature sensor.
- 4 Crank shaft position & engine speed sensor.
- 5 Engine coolant temperature sensor.
- 6 Fuel pressure sensor.
- 7 Water in fuel sensor.
- 8 Oil level sensor.
- 9 Oil pressure / temperature sensor.
- 10 Coolant level sensor.

The **Electronic Management System** continuously monitors and gathers data from 10 different sensors in the engine and adjusts the fuel supply and injection timing at lightning speed. This maximises fuel efficiency and engine output at any given time. It also enables precise integration of the engine with the machine that it powers and provides enhanced engine protection.



A new generation of electronically **EMS** controlled high-pressure **Unit Injectors** for:

- Ultra fine fuel atomisation.
- Precise fuel injection timing.
- Injection pressure control.
- Fuel quantity control for each combustion sequence.
- Negligible carbon deposit, less wear and tear and longer engine life.

CATERING TO VARIOUS CUSTOMER SEGMENTS:

- A) **TELECOM** : Aircel | Airtel | BSNL | Ericsson | MTNL | Reliance Communications | Tata Teleservices | Vodafone | VSNL | Wireless TT Info | Tata Docomo | Idea Cellular | MTS | Videocon Telecommunications
- B) **INFORMATION TECHNOLOGY** : Axa Business | L&T Info City | Leela Soft | Ness Technology | ETA Techno Park | Symcon Global Technologies | GNFC Data Centre, Gandhinagar | JVP Software
- C) **INDUSTRY** : Atul Products | Bhushan Steel | Gujarat Gas | Heglimited | Sintex | Uttam Steel | Wellknown Polyester | Madura Coats | Polycab | Govind Raja Textiles | Sterlite Industries | Jagatguru Textiles | Sayan Sugar Mill | NSK Bearings | Jay Auto | Heritage Beverages | Cryolor Asia Pacific | Linde Engineering India Pvt.Ltd. | Harsha Engineering Ltd.
- D) **INFRASTRUCTURE** : Gammon India | JMC Projects | L&T ECC | NBCC | Punj Lloyd | MSK Projects | Unity Projects & Infrastructure | JP Constructions | VRCL | Lanco Infratech | Lanco Infratech | Sadbhav Engineering
- E) **CORPORATES** : Electrotherm | Elf Lubricants | Moser Baer | MRF Ltd. | Reliance Industries | Pantaloon | Suzlon | Volvo | GSPC | Jindal Steel | Godrej Agrovet Ltd.
- F) **HOSPITALS** : Aruna Asaf Ali | Escort Hospital | DDU Hospital | Baby Hospital | LNJP Hospital | Srinivas Cardiology | Global Trust Hospital | Sterling | Wockhardt | Ravindranath GE
- G) **BANKS** : Bank Of Baroda | BNP Paribas | HSBC | RBI | ICICI | IDBI | Standard Chartered Bank
- H) **HOTELS / CLUBS** : Brabourne Stadium (Cricket Club Of India) | Major Dhyanchand Stadium | Fortune Landmark | Radisson Hotel | Holiday Inn | Gemini Continental | Jawaharlal Nehru Stadium | Sports Authority Of India | Royal Orchid | West Inn Hotel | Country Inn | Vasu Cocco Resorts Ltd. | Grand Sarovar | Grand Hyatt
- I) **MALLS / MULTIPLEXES** : Ashoka Mall | ISCON | Seven Seas Mall | City-Pulse | Milan Multiplexes | R³ Mall | City Gold | Crystal Mall | Imperial Mall | Irish Mall | Ahmedabad Central | Cinemax | Virtuous Retail
- J) **GOVERNMENT** : Bharat Heavy Electricals Ltd. | Gujarat Legislative Assembly | Indo - Pak & Indo - Bangladesh Border Flood Lighting Project | Institute of Plasma Research | NTPC | NMDC | CPWD | PWD | PMO - South Block | Tihar Jail | Standing Conference Of Public Enterprises (SCOPE) | Indian Parliament House | Ordnance Factory | Press Trust of India | TNTPO | Rajkot Municipal Corporation | PVVNL

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SUPERNOVA
ENGINEERS LTD.
Building Powerful Relationships

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