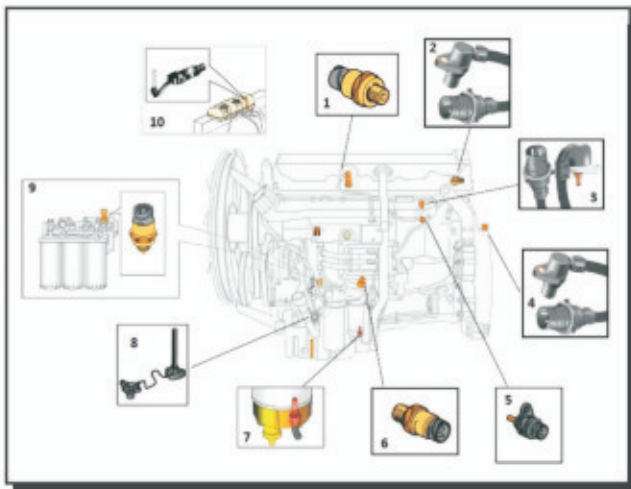




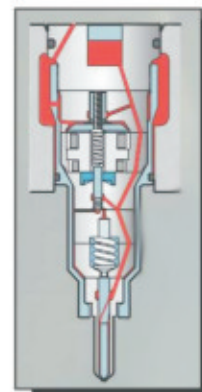
The **Electronic Management System** continuously monitors and gathers data from 10 different sensors in the engine and adjusts the fuel supply and injection timing at lightning speed. This maximizes fuel efficiency and engine output at any given time. It also enables precise integration of the engine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

CATERING TO VARIOUS CUSTOMER SEGMENTS:

- A) **TELECOM** : Aircel | Airtel | BSNL | Ericsson | MTNL | Reliance Communication | Tata Teleservices | Vodafone | VSNL | Wireless TT Info | Tata Docomo | Idea Cellular | MTS | Videocon
- B) **INFORMATION TECHNOLOGY** : Axa Business | L&T Info City | Leela Soft | Ness Technology | ETA Techno Park | Symcon Global Technologies | GNFC Data Center, Gandhinagar | JVP Software
- C) **INDUSTRY** : Bhushan Steel | Gujarat Gas | Sintex | Uttam Steel | Wellknown Polyster | Polycab | Govind Raja Textiles | Jagatguru Textiles | NSK Bearings | Madura Coats | Jay Auto | Linde Engineering
- D) **INFRASTRUCTURE** : Gammon India | JMC Projects | L&T ECC | NBCC | Punj Lloyd | Unity Projects & Infrastructure | IVRCL | Lanco Infratech | L&T-Hyderabad Metro
- E) **CORPORATES** : Electrotherm | Elf Lubricants | Moser Baer | MRF Ltd. | Reliance Industries | Pantaloon | Suzlon | Volvo | GSPC | Jindal Steel | Reliance JIO
- F) **HOSPITALS** : Aruna Asaf Ali | Escort Hospital | DDU Hospital | LNJP Hospital | 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 | Gemini Continental | Jawaharlal Nehru Stadium | Sports Authority Of India | Royal Orchid | Sri. Vatsa Hotel | West Inn Hotel | Country Inn | Vasu Cocco Resorts Ltd. | Grand Sarovar
- I) **MALLS / MULTIPLEXES** : ISCON | Seven Seas Mall | City-Pulse | Milan Multiplexes | R³ Mall | City Gold | Crystal Mall | Imperial Mall | Irish Mall | Ahmedabad Central | Cinemax
- J) **GOVERNMENT** : APMC | BHEL | 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 | Ordinance Factory | Press Trust of India | TNTPO | Rajkot Municipal Corporation | PVVNL | NDMC

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.



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

- Ultra fine fuel atomization.
- 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.



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RATING TABLES

Prime Power DG Sets CPCB II Compliant

1500 RPM (50 Hz)				
GENSET MODEL	ENGINE MODEL	3 Ph. 415 V, 0.8 PF		
		BHP	kVA	kWe
SV 250	TAD754GE	340	250	200
SV 320	TAD1351GE	426	320	256
SV 350	TAD1352GE	484	350	280
SV 350	TAD1352GE	484	365	292
SV 380	TAD1354GE	506	380	304
SV 415	TAD1355GE	540	415	332
SV 500	TAD1651GE	658	500	400
SV 600	TWD1652GE	710	600	480
SV 650	TWD1653GE	767	650	520

Export models are available on request in 1800RPM(85kVA to 630kVA)

*Above ratings are available in HE cooled version also.

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 AI and ISO 8528 Class G3. The engines may be operated upto 1000m 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.

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 cost & maintenance cost.
- Electronic engine management system • Low gaseous emission for clearer operation.
- Compact size for easier transportation and installation • Low vibrations & emissions.
- Overhead camshaft: Accurate valve timing and less mechanical part • Six cylinders in-line upto 650 kVA D.G set.

TECHNICAL DATA

GENSET MODEL	SV 250	SV 320	SV 350	SV 380	SV 415
Engine Model	TAD754GE	TAD1351GE	TAD1352GE	TAD1354GE	TAD1355GE
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. 150 AH	2 Nos. 180 AH			2 Nos. 180 AH
Fuel day tank capacity	612 Litres				
Coolant capacity incl. Radiator (Ltrs)	34	24			
Lub Oil Sump Capacity (Ltrs)	31	30			
Lub Oil Consumption (Ltr / hr)	0.05	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	3250 x 1200 x 1700	3250 x 1200 x 1700	3250 x 1200 x 1700	3250 x 1200 x 1700
Enclosure D.G set dimensions (L x W x H) in mm	4400 x 2000 x 2800	4400 x 2000 x 2980			
Approx. Dry Weight (Genset Only) in Kgs	2300	3100	3300	3400	3500
Approx. Dry weight (Genset+Enclosure) in Kgs	4100	4950	5150	5250	6100

GENSET MODEL	SV 500	SV 600	SV 650
Engine Model	TAD1651GE	TWD1652GE	TWD1653GE
Type	4 Stroke Water Cooled 1500 RPM Diesel Engine		
No.of Cylinders & Arrangement	6 Vertical In-Line		
Governor	Electronic / EMS 2		
Fuel System	Unit Injection System		
Bore x Stroke (mm x mm)	144 x 165		
Compression Ratio	16.5 : 1		
Starting System	24 V DC electric		
Lead Acid type Battery	2 Nos. 180 AH		
Fuel day tank capacity (Ltrs)	916		
Approx.coolant capacity incl.Radiator (Ltrs)	60	58	
Lub Oil Sump Capacity (Ltrs)	42		
Lub Oil Consumption (Ltr / hr)	0.1	0.05	
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	3400 x 1150 x 2000	3400 x 1200 x 2000	3400 x 1200 x 2000
Enclosure D.G set dimensions (L x W x H) in mm	5600 x 2200 x 3025		
Approx. Dry Weight (Genset Only) in Kgs	3700	3900	4200
Approx. Dry weight (Genset+Enclosure) in Kgs	6400	6600	6900

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

Note: The above new CPCB-II compliant D.G. sets are for Domestic market only.

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IN-BUILT RELIABILITY**

