



Diesel Genset Model SGV600 PR

Specification reference no. SGV600 PR-11-R



Rating Range		
Prime	kW	480
	kVA	600
Rated Current	I _t	834 amps
Voltage	V	415 Volts
Frequency	F	50 Hz
Power Factor	pF	0.8 lag

Standards

- The Engine Performance corresponds to ISO 3046, BS 5514, DIN 6271
- The Genset ratings are based on ISO 8528
- The transient performance of the D.G. set conforms to ISO 8528-5, class G-3
- The fuel consumption data is based on calorific value and parameters of fuel confirming to IS 1460
- The Alternator confirms to IEC 60034 - B

Features

- Global presence
- Most energy efficient D.G. set in its own rating
- The DG set and the related accessories are prototype tested, factory built and production tested at the respective factories. Fully automatic. Wider maintenance intervals and as such longer TBO
- 100% testing of each set with computerized test bench
- “Well experienced and trained engineers for 24 X 7 After sale support”
- Designed to meet the latest environmental norms and certified by CPCB nodal Agency

Rating Guide - Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power.

Note: Rating guidelines conforms to ISO 8528 - 1 and the generators are prime rated generators.



**Manufactured by,
Sterling Generators Pvt. Ltd.**

(A Shapoorji Pallonji Company)

Survey No. 59, 343/1, Village Kala, Kherdi, Khanvel,
Silvassa - 396 230 U. T. of Dadra & Nagar Haveli.

**Sales & After Sales Support by,
Sterling & Wilson Powergen Pvt. Limited**

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Govandi (East), Mumbai - 400 084.

Phone: ++91 22 25526100

Engine Technical Details			
Design Data		Air Intake System	
Make	Volvo	Air Intake restriction	5kPa
Model	TAD 1642GE		-
No. Cylinders	6		-
Cylinder arrangement	Inline		
Method of Operation	4 - Stroke	Cooling System	
Speed	1500 rpm	Radiator cooling	
Aspiration	Turbo Charged, Inter-cooled	Coolant capacity	60 liters
Cooling Method	Radiator	Radiator fan load	11KW
Governor Type	Volvo EMSII	Type of water pump	Engine driven
Governing Class	ISO 8528-5, better than Class A1		
Compression ratio	16.5:1	Lubrication System	
Displacement	16.12 liter	Type Oil	15W40 API - C14
Bore / Stoke	144 / 165 mm	Type of Oil Filters	Spin on Replaceable
Dry weight	1480 Kgs.	No. of Oil Filters	1
		Oil Sump capacity	42 liters
		Oil system capacity	48 liters
Fuel System		Oil cooling method	Water cooled
Type of Fuel Filters	Spin on type paper elem.	Oil Change Intervals	500 hrs.
No. of Fuel Filters	Primary - 1 no.		
	Secondary - 1 no.		
Filter Capacity	5 Micron	Exhaust System	
Filter change period	500 Hours. / 6 months (whichever is earlier)	Silencer type	Hospital-grade
		No. of Silencers	One
		Silencer out let Dia	140 mm
Air Intake System		Silencer Insertion loss	32% approx.
Type of Air Filter	Dry type	Max. allowable Back Pressure	75 mm of Hg
No. of Air Filters	One		

Alternator Technical Details			
Make	Leroy Somer	AVR Type	R-448
Frame	54 L	Voltage Regulation	± 1 % From no load to full load with speed drop of less than or equal to 4 %
Rating KVA	600		
KW	480	System Response Time	300 ms
Voltage Variation	5% of RV	Short Circuit Ratio	0.37
Rated Full Load Current	835 Amp.	Wave form distortion THF	Less than 4%
Enclosure -as per IS: 4691	IP 23	Stator Winding Connection	Star connected
Altitude MSL	<=1000 m	Cable Entry	Left hand side as seen from Driving End side
Ambient	40o C	Terminal Box Position	Mounted on top of stator body
Insulation - Stator	H	Over speed	1800 RPM Max
- Rotor	H	Weight	1372Kg
Temp. Rise - IS : 12802 above 40 °C Amb	Stator - 125 Rotor - 125	Lubrication	Castrol AP3 / Shell Alvania G3
Governing Standards	IS : 4722 (1992) or BS : 5000 or IEC 34 or DIN VDE : 530	Bearings - DE	N.A.
Excitation Type	Self Excited Self Regulated Brushless	- NDE	6315
Rectifier Bridge Type	3 phase, 6 pulse with varistor for diode protection	Direction of rotation	Clock wise from Drive End
Excitation Current in Adc		Cooling air	0.9 m3/Sec
- No load	0.9		
- Full load	3.7		

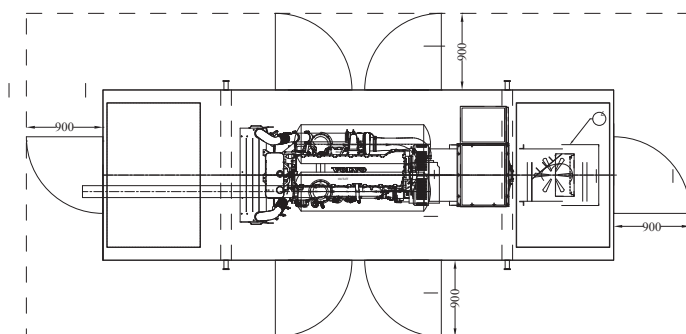
Genset Control Panel			
SG 1000 : Standard Supply		SG 2000 : Optional	
Features		Features	
Start/Stop		Start/Stop	
Local and Remote Start/Stop		Local and Remote Start/Stop	
Generator Set Breaker Control		Mains Monitoring	
Easily Accessible		Generator Set Breaker Control	
		Main Breaker Control	
Display		Easily Accessible	
Engine Parameters:			
RPM		Display	
Oil Pressure		Engine Parameters:	
Coolant Temperature		RPM	
Hour Meter		Oil Pressure	
Battery Volts		Coolant Temperature	
		Hour Meter	
Running Status		Battery Volts	
Event Recording			
Electrical Parameters		Running Status	
Voltage, Current, Hz, kVA, PF, kWh, kW and kVAR		Event Recording	
Genset Breaker Status		Electrical Parameters	
Engine Protection		Voltage, Current, Hz, kVA, PF, kWh, kW and kVAR	
High Water Temperature		Breaker Status	
Low Lube Oil Pressure		Engine Protection	
Engine Over speed Shutdown		High Water Temperature	
Electrical Protection		Low Lube Oil Pressure	
kW Overload		Engine Over speed Shutdown	
Unbalanced Load		Electrical Protection	
Under/Over Voltage		kW Overload	
Under/Over Frequency		Unbalanced Load	
Over Current Protection		Under/Over Voltage	
		Under/Over Frequency	
		Over Current Protection	

Generator Set Parameters			
Performance Data			
Fuel Consumption:(L/Hrs.)		g/KW-h	L/Hr.
	- 100 % Load	191.0	116.38
	- 75 % Load	197.0	95.70
	- 50 % Load	198.0	65.12
		(with 5% tolerance)	

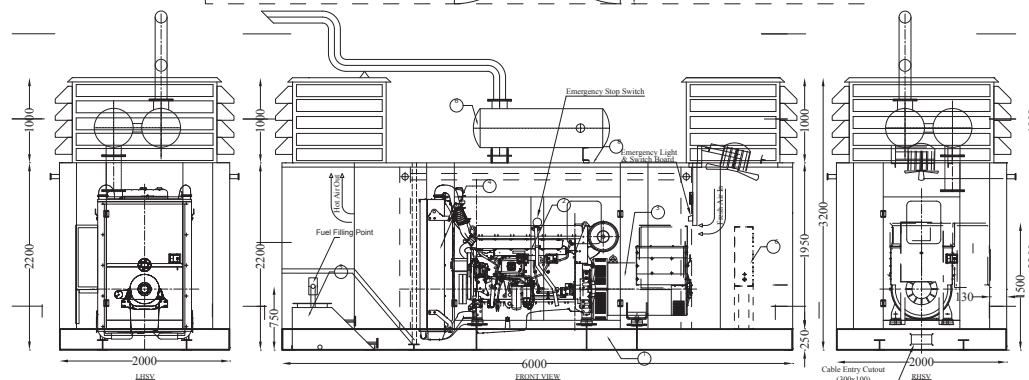
Generator set accessories			
Base Frame		Antivibration mounts	
Construction	Folded sheet metal, CRCA	Make	Polybond
Colour	Black	Location	Above the base frame
Fuel Tank		Canopy	
Capacity	750 liters.	Material	M. S. CRCA, 1.6 Thk.
Location	Inside canopy		35mm synth. Foam
Construction	M. S. CRCA, 2.0 Thk.	Colour	Royal Blue
Attachments	Breather	Ventilation - Fresh Air	From Alternator end
	Dial type level gauge	- Hot Air	From Radiator front end
Batteries		Lighting system	D C Bulb
Make	HBL Nife	Total Air Requirement	12480 CFM
Rating	1X24 Volts		
AH capacity	180		

Optional Accessories	
High & Low fuel level switch	Synchronising Panel
Electronic Fuel Level gauge	Alternator with RTD, BTD and Space Heater
DG Isolator Panel	

Genset Dimensions



Length (mm) 6000
 Width (mm) 2000
 Height (mm) H 3200
 Weight (Dry) Kgs. 8000
 Weight (Wet) Kgs. 8200



<p>Authorized Sales & Service Dealer</p>	
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Specifications are subject change due to continuous improvement of the product.