



-  Water cooled
-  60 HZ
-  Diesel
-  Three Phase

Generator set General Info

Model	Engine	Alternator	Controller	Voltage	Frequency
SVC-G56	Lovol	Brushless	HGM6120U	240/480V	60HZ

Generator dimension and Weight

	Dimension (L×W×H)	Weight (KGS)
Open type	1800×730×1290 (mm)	926
Silent type	2350×1133×1516(mm)	1420

Generator set Rating.

POWER RATING		Prime(PRP)	Standby (ESP)
POWER	KW	40	45
	KVA	51	56
Rated Speed	R.P.M	1800	
Standard Voltage	V	240/480	
Available Voltage	V	480/277-440/254-220/127-208/120	
Power Factor	Cos Phi	0.8	

Ambient conditions of reference:

1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Engine Specification @ 1800R.P.M

ENGINE		PRP STANDBY			
Rated Output	kW	50		55	
Manufacturer		LOVOL			
Model		1003TG			
No. of Cylinders and Build		4 Cycle; In-line; 3 Cylinder Diesel			
Aspiration and Cooling		Turbocharged			
Bore/Stroke	mm	100X127			
Compress the ratio		16.5:1			
Cooling system		Water-cooled			
Engine Speed/Frequency	rpm/Hz	1800/60HZ			
Coolant Capacity	L	15.9			
Starting System		Electric 24 volt DC			
Displacement	L	2.99			
Lubricant system Capacity	L	8.1			
Battery Voltage / Capacity		24VDC			
Governing Type	Type	Mechanical			
Air Filter	Type	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/H	7.5	5.8	4.2	2.5

ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and cooling fan complete with protection guards,designed to cool engine at specified output in air temperatures up to 45 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

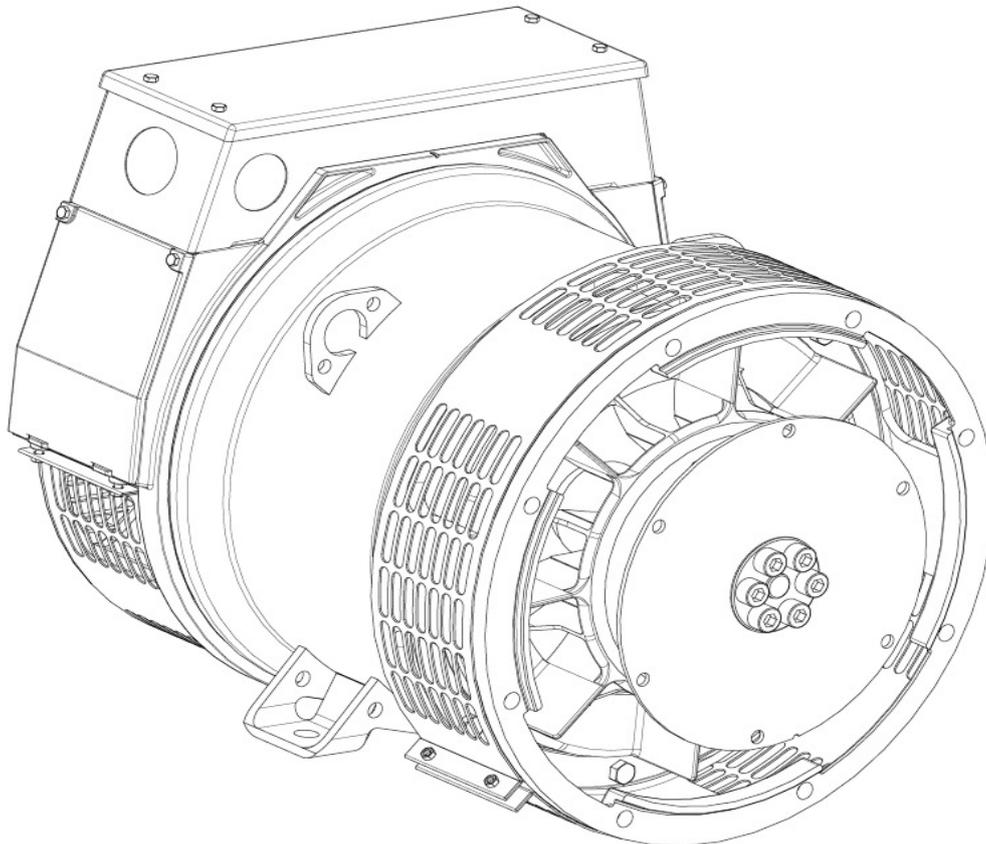
ELECTRICAL SYSTEM--12V up to.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM--Heavy duty industrial exhaust silencer with flexible piping

Alternator Specification @ 1800R.P.M

ALTERNATOR BRAND		SVC
Model		SV224C
Exciter System		Self-excited, brushless
Poles	Num	4
Cooling Fan		Cast alloy aluminum
Bearing		Single,double shielded
Winding		100% copper
Connection Type		Reconnectible
Insulation Type	Class	Class H
Pitch		2/3
Amortisseur Winding		Full
Voltage Regulator		A.V.R. (Electronic)
Steady Voltage Precision		± 1%
Under speed Protection		Standard
Over excitation Protection		IP23
TIF (1960 Weightings)		<50

ALTERNATOR--Brushless,self exciting,self regulation,screen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintained within $\pm 0.5\%$ from no load to full load.between 0.8 lagging and unity.All standard voltages available.



Controller specification

Control panel Smartgen HGM 6120U

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- a) Instruments: Analogue Volt-meter, Running hours Meter, Water pressure Meter.
- b) Controls: Emergency Stop Push button, Volt-meter Phase Selector Switch.
- c) Control module: Standard collocation is Smartgen HGM6120U Auto start with AMF.

Main Features:

- △ Automatic mains failure
- △ Engine control, Generator protection
- △ Built in alarms and warnings
- △ Remote Start operation available
- △ Daily / weekly / monthly exerciser
- △ Weekly operation schedule programs
- △ Fuel pump control
- △ ECU control and monitoring via J1940 CANBUS
- △ Mains simulation
- △ Block heater control
- △ Field adjustable parameters
- △ Free MS-Windows Remote monitoring
- △ LED displays
- △ Configurable analogue inputs
- △ I/O expansion capability



Protection Circuits	Instruments
WARNING	ENGINE
Battery charge failure	Engine speed
Low battery voltage	Oil pressure
SHUT DOWNS	Coolant temperature
Fail to start	Run time
Emergency stop	Battery volts
Low oil pressure	TOR
High engine temperature	Voltage (L-N)
Over /Under speed	Current (L1-L2-L3)
Under/over generator frequency	Frequency
Failed to reach loading voltage	MAINS
ELECTRICAL TRIP	Voltage (L-L, L-N)
Generator over current	



Contact US

Introduction

Sunvision Power Co.,Limited is well established by Sunvision Digital Technology Co.,Limited in 2007, Focusing on Diesel generator set, Gas generator set and lighting Tower designing, Manufacturing and service.

Product Series

- Cummins diesel Generator setSVC-G series
- Perkins Diesel Generator setSVP-G series
- Yanmar Diesel Generator set.....SVYM series
- Doosan Diesel Generator set.....SVD-G series
- Lovol Diesel Generator set.....SVL-G series
- Lighting TowerVL series

Contact US

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