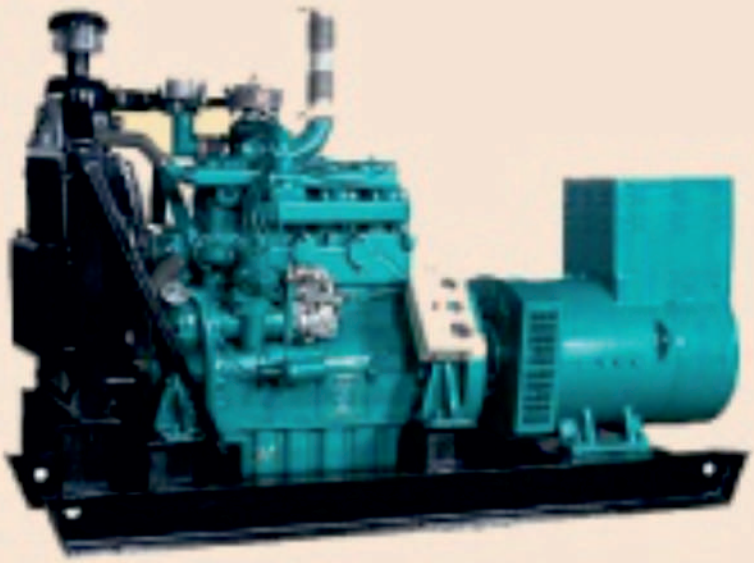
Silica®

GENERATOR/ ALTERNATOR/ WATER SAT

www.silicaindia.com



1993 25 YEARS SINCE

FOLLOW US ON:

ISO 9001:2015 CERTIFIED COMPANY

50Hz

सिलीका सिलीका নরয়ীব ڈیزل سیٹ SILICA சிலிக்கா SILIKA ಸಿಲಿಕಾ আগ্নেয় ধাতব পদার্থবিশেষ السيليكا

INTRODUCTION

Silica, with its unwavering commitment to the creation of world-class quality products at competitive prices, the Silica group has created a niche for itself in the Electrical Industry.The company was established in 1991 and being exported it's electrical products to various countries of Gulf, African & Asian countries.

Now Silica Group has extended its range of products and started manufacturing of Diesel Engines and Pumps.

'Silica group' is having a modern, very well equipped, ISO 9001:2000 Certified unit for manufacturing of Diesel Engines, Water pumps, Pump sets, Generating sets, Alternators. All of our products are as per ISO Standards and have highly been appreciated for their design, reliability, durability and best quality for long lasting & exquisite performance.

Apart from conventional diesel Engines/ Gensets, We had indigenously developed Natural and L P Gas Engines of world class technology and are also manufacturing Engines for Biomass and Producer gases.

In this highly competitive market we are able to sustain and progressively register increased sales volume year after year, merely because of Total commitment to Total Quality Management at every stage of manufacturing till the goods are delivered to our esteemed buyers. Quality audits and stringent checks are built into our quality control systems so as to maintain highest levels of quality of our products.

Looking forward to your esteemed organization & assuring you the best services at all times from our side.

Thanking you.
Silica Group

EXPORT

TANZANIA SUDAN NIGERIA GHANA ETHIOPIA BANGLADESH KENYA KUWAIT YEMEN QATAR CONGO OMAN SRI LANKA U.A.E. MYANMAR

सिलीका सिलीका नरयीव ټټټټ SILICA சிலிக்கா SILIKA ሲሊካ আগ্নেয় ধাতব পদার্থবিশেষ السيليكا

Silica®

DIESEL ENGINES WATER COOLED

Diesel Engines Water Cooled 3.5 to 16 HP

Engine

ENGINE

Rating	3.5 to 16.0 HP
Cooling	Water Cooled
No. of Cyl.	One
Fuel	High Speed Diesel
Type	Vertical,4-stroke, compression ignition
Injection	Direct by multi-hole nozzle
RPM	1500-1800
Sp. Fuel Con.	169 to 172 grams/hp-hr
Fuel Tank	5 to 10 Liters
Rotation	Clockwise looking at the flywheel
Starting	Handle start with cranking

Technical Specification

Model	Rated Power		R.P.M	BORE(mm)	STROKE(mm)	Dry Weight
	HP	KW				
LSV-1	3.5	2.6	1450	80.0	80.0	83
LSV-2	4.0	2.9	1500	85.0	80.0	83
SV-5	5.0	3.7	1500	80.0	110.0	145
SV-2	6.5	4.8	1500	85.0	110.0	145
SV-3	7.5	5.5	1500	87.5	110.0	155
SV-10	10.0	7.4	1500	95.0	115.0	165
SV-12	12.0	8.8	1500	102.0	115.0	170
SV-14	14.0	10.3	1500	114.3	115.0	180
SV-16	16.0	11.8	1500	120.0	120.0	190

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Silica®

DIESEL ENGINES WATER COOLED

Diesel Engines Water Cooled 12 to 28 HP

Diesel Engine

ENGINE

Power	12.0 to 28.0 HP
Cooling	Water Cooled
No. of Cyl.	Two
Fuel	High Speed Diesel
Type	Vertical,4-stroke, compression ignition
Injection	Direct by multi-hole nozzle
RPM	1500-1800
Sp. Fuel Con.	169 to 172 grams/hp-hr
Fuel Tank	10 to 20 Liters
Rotation	Clockwise looking at the flywheel
Starting	Handle start with cranking

Technical Specification

Model	Rated Power		R.P.M	BORE(mm)	STROKE(mm)	Dry Weight
	HP	KW				
2SV-2	12.0	8.8	1500	85.0	110.0	300
2SV-3	15.0	11.0	1500	87.5	110.0	310
2SV-10	20.0	14.7	1500	95.0	115.0	315
2SV-12	24.0	17.6	1500	102.0	115.0	325
2SV-14	28.0	20.6	1500	114.3	115.0	340

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Silica®

DIESEL ENGINES WATER COOLED

Diesel Engines Water Cooled 28 to 150 HP

Diesel Engine

ENGINE

Power	28 to 150 HP
Cooling	Water Cooled
No. of Cyl.	2,3,4 & 6
Fuel	High Speed Diesel
Type	Vertical,4-stroke, compression ignition
Injection	Direct by multi-hole nozzle
RPM	1500-1800
Sp. Fuel Con	152 to 172 grams/hp-hr
Starting	Electrical (12 volts)
Governer	Mechanical

Technical Specification

Model	Rated Power		R.P.M.	BORE (mm)	STORKE (mm)	No. of Cyl.	Aspiration	S.F.C. (G/hp-hr.)	Dry Weight K.g.
	HP	KW							
SR-2	28	20.6	1500	110	125	2	Natural	162	380
	32	23.5	1800						
SR-3	41	30.2	1500	110	116	3	Natural	162	430
	46	33.8	1800						
SR-4	54	39.7	1500	110	120	4	Natural	159	470
	62	45.6	1800						
SR-6	76	56.0	1500	110	116	6	Natural	159	510
	90	66.2	1800						
SR-4-T	84	61.8	1500	110	120	4	Turbo Charged	152	540
	100	73.6	1800						
SR-6-T	125	92.0	1500	110	116	6	Turbo Charged	152	620
	150	110.4	1800						

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Silica®

DIESEL ENGINES WATER COOLED SLOW SPEED

Diesel Engines Water Cooled Slow Speed 6 to 12 HP

Diesel Engine Slow Speed

ENGINE

Rating	6 to 12 HP
Cooling	Water Cooled
No. of Cyl.	One
Fuel	Diesel
Type	Vertical,4-stroke, compression ignition
Injection	Indirect/Direct
RPM	650 to 1000
Sp. Fuel Con.	197 grams/hp-hr
Fuel Tank	10 Liters
Rotation	Clockwise looking at the flywheel
Starting	Handle start with cranking

Technical Specification

Model	Rated Power		R.P.M	BORE(mm)	STROKE(mm)	Dry Weight
	HP	KW				
SL-1	6	4.4	650	120	139.7	315
SL-2	8	5.9	850	120	139.7	315
SL-4	10	7.4	1000	120	139.7	325
SL-5	12	8.8	1000	127	139.7	425

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Silica®

DIESEL ENGINES AIR COOLED

Diesel Engines Air Cooled 3.5 to 10 HP

Diesel Engine

ENGINE

Power	3.5 to 10 HP
Cooling	Air Cooled(Radial Cooled)
No. of Cyl.	One
Fuel	High Speed Diesel
Type	Vertical,4-stroke, Compression ignition
Injection	Direct by multi-hole nozzle
RPM	1500-1800
Sp. Fuel Con	169 to 172 grams/hp-hr
Fuel Tank	5 to10 Liters
Rotation	Clockwise looking at the flywheel
Starting	Handle start with cranking

Technical Specification

Model	Rated Power		R.P.M	BORE(mm)	STROKE(mm)	Dry Weight
	HP	KW				
ASV-1	4.0	2.9	1500	80.0	80.0	83
ASV-5	5.0	3.7	1500	80.0	110.0	83
ASV-2	6.25	4.6	1500	85.0	110.0	135
ASV-3	7.0	5.15	1500	87.5	110.0	145
ASV-4	8.0	5.9	1500	95.0	115.0	155
ASV-10	10.4	7.64	1500	102.0	115.0	160

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Silica®

DIESEL ENGINES AIR COOLED

Diesel Engines Air Cooled 12 to 20 HP

Diesel Engine

ENGINE

Power	12 to 20.0 HP
Cooling	Air Cooled(Radial Cooled)
No. of Cyl.	Two
Fuel	High Speed Diesel
Type	Vertical,4-stroke, Compression ignition
Injection	Direct by multi-hole nozzle
RPM	1500-1800
Sp. Fuel Con	169 to 172 grams/hp-hr
Fuel Tank	10 to20 Liters
Rotation	Clockwise looking at the flywheel
Starting	Handle start with cranking

Technical Specification

Model	Rated Power		R.P.M	BORE(mm)	STROKE(mm)	Dry Weight
	HP	KW				
ASV-12	12.0	8.8	1500	85.0	110.0	300
ASV-14	14.0	10.3	1500	87.5	110.0	300
ASV-15	15.76	11.6	1500	95.0	110.0	315
ASV-20	20.0	14.7	1500	102.0	115.0	325

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NATURAL GAS ENGINES

Gas Engines Natural Gas 20 to 125 HP

Gas Engine

ENGINE

Cooling	Water Cooled
No. of Cyl.	2,3,4 & 6
Fuel	Natural Gas/CNG/LPG Propane Biomass/Bio Gases
Type	Vertical,4-Stroke
	Electronic Spark Ignition
RPM	1500-1800
Starting	Electrical-12 Volt
Governor	Mechanical/Electronic
Application	Prime Mover for Genset, Pumpset etc.

Technical Specification

Engine Model	Rated Output		R.P.M.	BORE (mm)	STOKE (mm)	No. of Cyl.	Swept Vol. (cc)	Aspiration	Fuel Consumption at 75% rated power	
	HP	KW							Natural Gas SCum/Hr	L.P.Gas Kg/Hr
SN-2	20	14.7	1500	110	125	2	2376	Natural	3.6	2.4
	24	17.7	1800						4.3	2.9
SN-3	32	23.5	1500	110	116	3	3307	Natural	5.7	3.8
	38	28.0	1800						6.9	4.6
SN-4	50	36.8	1500	110	120	4	4561	Natural	8.8	5.9
	60	44.2	1800						10.6	7.0
SN-6	65	47.8	1500	110	116	6	6614	Natural	10.9	7.3
	78	57.4	1800						13.1	8.7
SN-4-T	75	55.2	1500	110	120	4	4561	Turbo Charged	12.5	8.3
	90	66.2	1800						15.0	10.0
SN-6-T	105	77.3	1500	110	116	6	6614	Turbo Charged	17.0	11.3
	125	92.0	1800						20.4	13.6

*Fuel consumption purely depends on the composition of gaseous fuel.

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BIO GAS ENGINES

ENGINE

Gas Engine

Technical Specification

Engine Model	SN-2-BG	SN-3-BG	SN-4-BG	SN-4T-BG	SN-6T-BG
Power at 1500 RPM(BHP)	22	30	42	63	94
No. of Cylinders	2	3	4	4	6
Bore x Stroke (mm)	110 x 123	110 x 116	110 x 120	110 x 120	110 x 116
Swept Volume(Lts.)	2376	3307	4561	4561	6614
Aspiration	Natural	Natural	Natural	Turbo Charged	Turbo Charged
Lub Oil Sump Capacity	5	7.5	11	12	15
Governor	MICO RSV Class A-2(Mechanical)				

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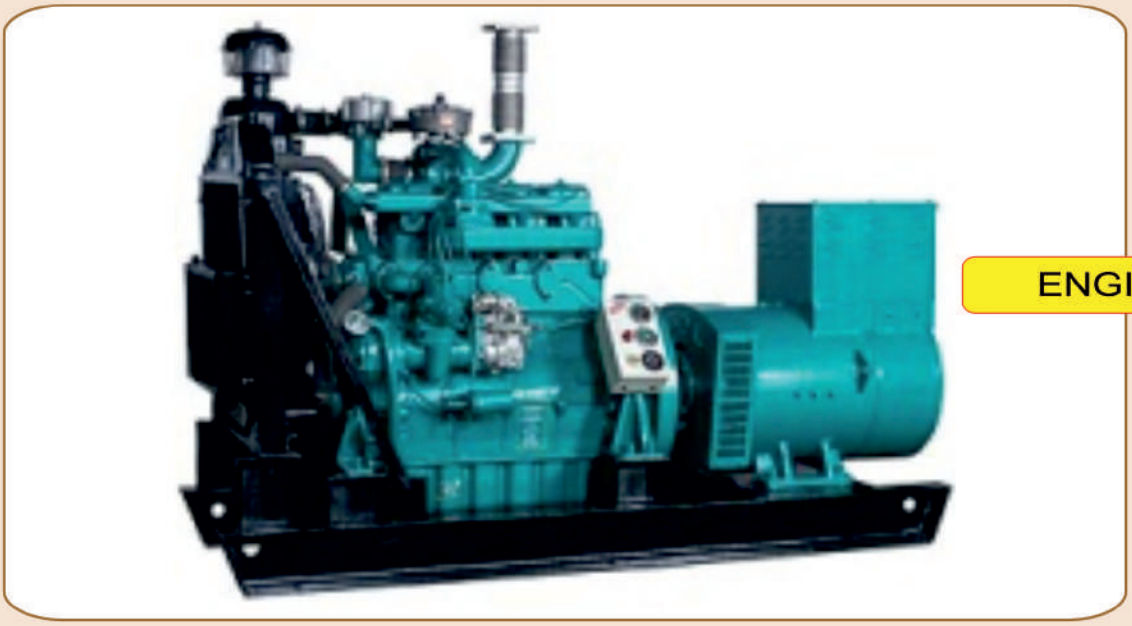
BIO GAS GENERATORS



ENGINE

Bio Gas Generators 15 to 65 KVA

Technical Specification

Genset Model	SNG 15-BG	SNG-20-BG	SNG-30-BG	SNG-50-BG	SNG-65-BG
Rated Power KVA (KW)	15(12)	20(16)	30(24)	50(42)	65(52)
Rated Current(Amps/Ph)	21	28	42	70	90
Gas Consumption (Scum/hr)*	-	-	-	-	-
Output of gas kW/M3hr**	-	-	-	-	-
Dimensions L x W x H (cm)	140 x 70 x 125	161 x 70 x 125	200 x 70 x 125	210 x 80 x 135	250 x 80 x 135
Dry Weight(Kgs.)	725	900	1125	1250	1425

Engine Model	SN-2-BG	SN-3-BG	SN-4-BG	SN-4T-BG	SN-6T-BG
Power at 1500 RPM(BHP)	22	30	42	63	94
No. of Cylinders	2	3	4	4	6
Bore x Stroke (mm)	110 x 123	110 x 116	110 x 120	110 x 120	110 x 116
Swept Volume(Lts.)	2376	3307	4561	4561	6614
Aspiration	Natural	Natural	Natural	Turbo Charged	Turbo Charged
Lub Oil Sump Capacity	5	7.5	11	12	15
Governor	MICO RSV Class A-2(Mechanical)				

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BIOMASS ENGINES

Biomass Engines

Technical Specification

Engine Model	SN-2-BG	SN-3-BG	SN-4-BG	SN-4T-BG	SN-6T-BG
Power at 1500 RPM(BHP)	20	25	38	56	76
No. of Cylinders	2	3	4	4	6
Bore x Stroke (mm)	110 x 123	110 x 116	110 x 120	110 x 120	110 x 116
Swept Volume(Lts.)	2376	3307	4561	4561	6614
Aspiration	Natural	Natural	Natural	Turbo Charged	Turbo Charged
Lub Oil Sump Capacity	5	7.5	11	12	15
Governor	MICO RSV Class A-2(Mechanical)				

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Silica®

BIOMASS GENERATORS

ENGINE

Biomass Generators 15 to 50 KVA

Technical Specification

Genset Model	SNG 15-BG	SNG-20-BG	SNG-30-BG	SNG-40-BG	SNG-50-BG
Rated Power KVA (KW)	15(12)	20(16)	30(24)	40(32)	50(40)
Rated Current(Amps/Ph)	21	28	42	56	70
Gas Consumption (Scum/hr)*	-	-	-	-	-
Output of gas kW/M3hr**	-	-	-	-	-
Dimensions L x W x H (cm)	140 x 70 x 125	161 x 70 x 125	200 x 70 x 125	210 x 80 x 135	250 x 80 x 135
Dry Weight(Kgs.)	725	900	1125	1250	1425

Engine Model	SN-2-BG	SN-3-BG	SN-4-BG	SG-4T-BG	SN-6T-BG
Power at 1500 RPM(BHP)	20	25	38	56	76
No. of Cylinders	2	3	4	4	6
Bore x Stroke (mm)	110 x 123	110 x 116	110 x 120	110 x 120	110 x 116
Swept Volume(Lts.)	2376	3307	4561	4561	6614
Aspiration	Natural	Natural	Natural	Turbo Charged	Turbo Charged
Lub Oil Sump Capacity	5	7.5	11	12	15
Governor	MICO RSV Class A-2(Mechanical)				

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Silica®

GENERATING SET

Diesel Water Cooled Single Phase

Generating Set 2.2 to 8.5 kVA Diesel Water Cooled

ENGINE	
Cooling	Water
Fuel	H.S.Diesel
Speed	1500 RPM
No. of Cyl.	One
SFC 1	gms/HP-Hr
A. C. GENERATOR	
Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Regulation	± 5% max.
Mounting	Foot

Technical Specification

Model	AC Generators (Alternator)						Diesel Engine	Dry Weight (Kg.)
	Rating		No. of Phase	Volts	Current (Amps)	Power Factor	Rating (HP)	
	KVA	KW						
SWS 220	2.2	2.2	One	230	9.5	1.0(UPF)	4.0	165
SWS 350	3.5	3.5	One	230	15.2	1.0(UPF)	6.5	270
SWS 500	5.0	5.0	One	230	21.7	1.0(UPF)	7.5	295
SWS 600	6.0	6.0	One	230	26.1	1.0(UPF)	10.0	305
SWS 750	7.5	7.5	One	230	32.6	1.0(UPF)	12.0	325
SWS 850	8.5	8.5	One	230	37.0	1.0(UPF)	14.0	335

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Silica®

GENERATING SET

Diesel Water Cooled Single Phase

Generating Set 10 to 18 kVA Diesel Water Cooled

ENGINE

Cooling	Water
Fuel	H. S .Diesel
Speed	1500 RPM
No. of Cyl.	Two
Type	Vertical,4-Stroke Compression ignition
Fuel Tank	10 to 20 Liters
Starting	Handle Start Electrical (Optional)
A. C. GENERATOR	
Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Regulation	± 5% max.

Technical Specification

Model	AC Generators (Alternator)						Diesel Engine	Dry Weight (Kg.)
	Rated Output		No. of Phase	Volts	Current (Amps)	Power Factor	Rated Power (HP)	
	KVA	KW						
SWS 1000	10.0	10.0	One	230	43.5	1.0(UPF)	15.0	480
SWS 1200	12.0	12.0	One	230	52.2	1.0(UPF)	17.5	500
SWS 1400	14.0	14.0	One	230	60.9	1.0(UPF)	21.5	520
SWS 1600	16.0	16.0	One	230	69.6	1.0(UPF)	23.0	545
SWS 1800	18.0	18.0	One	230	78.3	1.0(UPF)	26.0	550

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Silica®

GENERATING SET

Diesel water Cooled Single Phase

Generating Set 25 to 45 kVA Diesel Water Cooled

ENGINE	
Cooling	Water Cooled
Fuel	H.S.Diesel
Speed	1500 RPM
Type	Vertical,4-stroke Compression Ignition
Injection	Direct by multi-hole nozzle
Starting	Electrical(12 Volts)
Governor	Mechanical
A. C. GENERATOR	
Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Power Factor	0.8

Technical Specification

Model	AC Generators				Diesel Engine				
	Rated Output		Current (Amps)		Rated Power HP	No.of Cylinders	Swept Volume (cc)	Specific Fuel Consumption (GM/bhp-hr)	Aspiration
	KVA	KW	Three Phase	Single Phase					
SRG 25	25	20	35	105	32	2	2376	162	Natural
SRG 30	30	24	42	126	41	3	3307	162	Natural
SRG 35	35	28	49	147	46*	3	3307	162	Natural
SRG 40	40	32	56	168	56	4	4561	159	Natural
SRG 45	45	36	63	189	56	4	4561	159	Natural

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Silica®

GENERATING SET

Diesel Water Cooled
Single Phase WELDING GENERATOR

Generating Set Diesel Water Cooled Welding Generator

Single Cylinder
Water Cooled Welding Generator

WELDING GENERATOR

Type	Direct Online Welding
Fuel	H.S.Diesel
Rev.Speed	1500 RPM
Starting	Handle start Electrical(Optional)
Frequency	50 Hz
Fuel Tank	10 liters
Insulation	F Class

Technical Specification

Model	SWW-220	SWW-400
Welding Rod Size (SWG.)	12 to 8.0	12 to 6.0
Welding Rod Size (mm)	2.5 to 4.0	2.5 to 5.0
Welding Current (AMPS)	Max. 220	Max. 400
Current Controlling	4 Steps	4 Steps
Single Phase Load at 230 V	2.0 KW(8.7 Amp)	3.0 KW(13 Amp)

Prime Mover

Diesel Engine Rating	12.0 H.P	20.0 H.P
No. of Cylinder	One	Two
Cooling	Water	Water
Net Weight of Unit	343.0 Kg	425.0 Kg
Gross Weight of Unit	520.0 Kg	585.0 Kg
Packing Size(L x W x H) cm.	135 x 56 x 119	159 x 66 x 123
User Sectors	Domestic,Commercial andIndustrial	
Application	Direct Online Welding	

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Silica®

GENERATING SET

Diesel Water Cooled Three Phase

Generating Set 5 to 10 kVA Diesel Water Cooled

Generator

ENGINE

Cooling	Water
No. of Cyl.	ONE
Fuel	H.S.Diesel
Speed	1500 RPM
SFC 1	gms/HP-Hr
A. C. GENERATOR	
Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Regulation	± 5% Max.
Mounting	Foot

Technical Specification

Model	AC Generators (Alternator)						Diesel Engine	Dry Weight (Kg.)
	Rating		No. of Phase	Volts	Current (Amps)	Power Factor	Rating (HP)	
	KVA	KW						
SWT 500	5.0	4.0	Three	415	7.0	0.8(LAG)	6.5	275
SWT 625	6.25	5.0	Three	415	8.7	0.8(LAG)	7.5	285
SWT 750	7.5	6.0	Three	415	10.4	0.8(LAG)	10.0	305
SWT 870	8.7	7.0	Three	415	12.2	0.8(LAG)	12.0	320
SWT 980	9.8	8.0	Three	415	13.9	0.8(LAG)	14.0	338

सिलीका सिलीका নরয়ীব ᱥᱤᱞᱤᱠᱟ SILICA சிலிக்கா SILIKA ሲሊካ আগ্নেয় ধাতব পদার্থবিশেষ السيليكا

Silica®

GENERATING SET

Diesel water cooled Three Phase

Generating Set 10.5 to 22.5 kVA Diesel Water Cooled

ENGINE

Cooling	Water
No. of Cyl.	Two
Fuel	H.S.Diesel
Speed	1500/1800 RPM
Type	Vertical,4-stroke Compression Ignition
Starting	Handle start Electrical(Optional)
Fuel Tank	10 to 20 liters

A. C. GENERATOR

Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Regulation	± 5% Max.

Technical Specification

Model	AC Generators (Alternator)						Diesel Engine	Dry Weight (Kg.)
	Rated Output		No. of Phase	Volts	Current (Amps)	Power Factor	Rated Power (HP)	
	KVA	KW						
SWT 1000	10.0	8.0	Three	415	13.9	0.8(LAG)	15.0	480
SWT 1250	12.5	10.0	Three	415	17.4	0.8(LAG)	17.5	490
SWT 1500	15.0	12.0	Three	415	20.8	0.8(LAG)	21.5	510
SWT 1750	17.5	14.0	Three	415	24.3	0.8(LAG)	23.0	530
SWT 2000	20.0	16.0	Three	415	27.8	0.8(LAG)	26.0	545

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Silica®

GENERATING SET

Diesel Water Cooled Three Phase

Generating Set 25 to 100 kVA Diesel Water Cooled

ENGINE	
Cooling	Water Cooled
Fuel	H.S.Diesel
Speed	1500 RPM
Type	Vertical,4-stroke Compression Ignition
Injection	Direct by multi-hole nozzle
Starting	Electrical(12 Volts)
Governor	Mechanical
A. C. GENERATOR	
Voltage	230/415 V
Phase	Single/Three
Frequency	50 Hz
Insulation	F Class
Power Factor	0.8

Technical Specification

Model	AC Generators				Diesel Engine				
	Rated Output		Current (Amps)		Rated Power HP	No.of Cylinders	Swept Volume (cc)	Specific Fuel Consumption (GM/bhp-hr)	Aspiration
	KVA	KW	Three Phase	Single Phase					
SRG 25	25	20	35	105	32	2	2376	162	Natural
SRG 30	30	24	42	126	41	3	3307	162	Natural
SRG 35	35	28	49	147	46*	3	3307	162	Natural
SRG 40	40	32	56	168	56	4	4561	159	Natural
SRG 45	45	36	63	189	56	4	4561	159	Natural
SRG 50	50	40	70	210	62*	4	4561	159	Natural
SRG 65	65	52	90	NA	84	4	4561	152	Turbo Charged
SRG 82	82.5	66	114	NA	106	6	6614	152	Turbo Charged
SRG 100	100	80	138	NA	125	6	6614	149	Turbo Charged

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