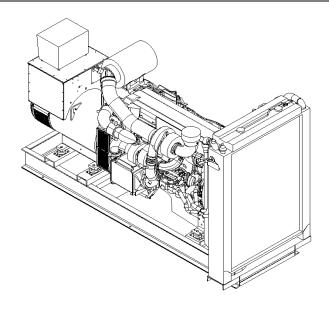


DIESEL PRODUCT LINE

SVW220 T6-T3

120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime



60Hz POWER RATINGS

Voltage AC	Dhaga	PF	Standby		Prime*	
Voltage AC	FIIdSE	FF	KW	Α	Kw	Α
120/240	1	1	228	951	203	847
120/208	3	8.0	230	797	205	710
277/480	3	8.0	231	347	205	309
347/600	3	0.8	231	278	206	248

^{*} Prime power rating for reference only.

Overview of the SIMMAX series of Industrial Generator Sets

Simson-Maxwell generators are factory-built in facilities that utilize the latest technology, mechanical and electrical component assembly, production, and testing. Each model is the result of computer-aided design and modeling backed up by exhaustive prototype-testing. Our development technology results in a unique range of innovative designs for highly reliable generator sets backed-up by a comprehensive warranty covering all components.

Standard Configuration of Industrial Sets

- Long-life, heavy-duty, 4-cycle, direct injection diesel engine from a world-renowned manufacturer for economy of operation and maximum reliability and durability. Capable of full-rated load acceptance in one step.
- Cooling: Radiator with belt driven pusher fan.
- Filtration: Heavy duty replaceable element air-cleaner.
- Alternator: Single bearing, 4-pole, rotating field, self-excited, self-ventilated, 12-wire re-connectable (6-wire dedicated for 600V), 60Hz brushless alternator with Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation.
- Arrangement: Open skid with engine and alternator units close coupled together and with seismic anti-vibration isolators mounted between the assembly and a heavyduty steel base. Lifting lugs are provided as per application.
- Auto Start Control Panel: Digital auto-start microprocessor based control panel with remote start capability.
- Starting System: Electric starter motor, battery cables, battery and belt driven charging alternator.
- CSA certified and meets CSA C282 requirements.



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ENCINE OFFICIATION				
ENGINE SPECIFICATION Manufacturer	Volvo			
Model	TAD754GE			
EPA certified	Tier-3			
Crank shaft speed: rpm	1800 Diagram			
Fuel type	Diesel Direct			
Injection Aspiration				
•	Turbocharged			
Number of cylinder	6 Inline			
Cylinder arrangement	Inline			
Displacement: L Bore: mm	7.15			
Stroke: mm	108 130			
	246.0			
Engine standby power: kW				
Engine prime power: kW	219.0 Water cooled			
Cooling Governor	Electronic			
	24V DC			
Starting motor voltage				
Compression ration Air cleaner type	17.0:1			
EXHAUST SYSTEM	Double stage with cyclone			
Maximum engine exhaust temperature: °F (°C)	977 (525)			
Exhaust gas flow: CFM (m3/hr)	1487.0 (2526.5)			
Max. permissible back pressure: PSI (kPA)	1.016 (7)			
COOLING SYSTEM	1.010 (1)			
Radiator cooling air flow: CFM (m3/hr)	12926 (21962) @Max 40 ℃ ambient temperature			
Max. restriction of cooling air: in.w.g. (kPA)	1.086 (0.3)			
Engine combustion air flow: CFM (m3/hr)	505 (859)			
Total intake air requirement: CFM (m3/hr)	13431 (22819.5)			
Total coolant capacity: Litre	34			
HEAT BALANCE				
Heat at rejection to coolant: kW	146.0			
Heat at rejection radiation from engine: kW	27.0			
Heat at rejection to engine exhaust: kW	182.0			
LUBRICATION SYSTEM				
Oil pan capacity: Litre	31.0			
Oil pan capacity with filter: Litre	34.0			
Oil cooler	Integrated full flow			
Recommended lubricating oil grade	VDS3/VDS2			
Oil consumption at full load: Litre/hr	0.05			
Oil pressure: PSI (kPA)	58.1 (400)			
Oii piessuie. FSI (KFA)	JU. 1 (400)			



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ENGINE ELECTRICAL SYSTEM				
Starting motor voltage		24V DC		
Battery capacity		4D, 12V, 1000A		
Cranking Amps minimum		400 A at +20 ℃		
FUEL SYSTEM				
Recommended fuel		DIN EN590		
Fuel supply line, min. ID: mm		15.0		
Fuel return line min. ID: mm		15.0		
Fuel supply line max. restriction: kpa		35		
Fuel pump type		Engine-driven		
Fuel filter		Fuel filter 0.005mm Prefilter 0.010mm		
FUEL CONSUMPTION	Standby Power	Prime Power		
100% Load Standby: Litre/hr	63.2	100% Load Prime: Litre/hr	60.9	
75% Load Standby: Litre/hr	52.1	75% Load Prime: Litre/hr	52.7	
50% Load Standby: Litre/hr	37.8	50% Load Prime: Litre/hr 25% Load Prime: Litre/hr	35.2	
25% Load Standby: Litre/hr ALTERNATOR SPECIFICATION	25% Load Standby: Litre/hr 23.2 ALTERNATOR SPECIFICATION		22.0	
Alternator manufacturer		STAMFORD		
Alternator model		HCl434		
Voltage		120V - 480V, 600V		
Alternator type		Four pole, Rotating field		
Excitation system		Brushless, PMG (MX341)		
Power factor		0.8		
Number of leads		12 leads reconnectable (120V-480V-600V)		
Stator pitch		2/3		
Insulation		Class H		
Windings - temperature rise / Ambien	t ℃	125 / 40		
Enclosure rating		IP23		
Bearing		Single, Sealed		
Amortisseur windings		Full		
Voltage regulation - no lead to full load	d with DSR AVR	± 1%		
TIF		<50		
Line harmonics	•	5% MAXIMUM		
Alternator cooling air flow: CFM (m3/	nr)	2100 (3568)		
STANDARD FEATURES				
Radiator with pusher fan		Standard fuel filter		
 Medium-duty, Double stage with cyc 		All rotating components protected with metal guards		
Heavy-duty engine start batteries with cables		Operation and installation literature		
Emergency stop switch		CSA certified		
Control Panel (See next page for details)		Steel base for mounting on fuel tank/concrete surface		
OPTIONAL FEATURE: SUB-BASE F	UEL TANK *			
Runtime	24 hour	48 hour	72 hour	
Tank volume - US gal (L)	400.5 (1516.1)	801 (3032.2)	1201.5 (4548.2)	
Tank size: L x W x H - inch	115 x 45 x 22	110 x 45 x 40	163 x 45 x 40	
Tank size: L x W x H - m	3 x 1.2 x 0.6	2.8 x 1.2 x 1	4.2 x 1.2 x 1	

^{*} All measurements are approximate and for estimation purposes only. The tank dimensions may vary. For specific sizes, contact sales representative.



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Control Systems Standard Features - Generator Digital Control Panel

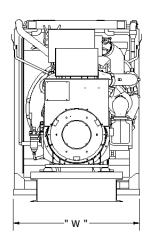
Standard Configuration of Control Systems

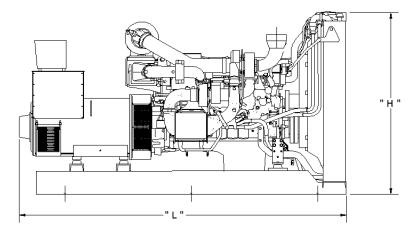
- Numerous control systems available, depending on customer requirements
- Automatic or manual start/stop
- Pre-lube function with timers
- · Adjustable crank attempts
- Engine warm up/cooling functions
- Digital metering with alarms and shutdowns

- LCD display
- LED indicators
- In-built PLC function
- RS232 (optional RS485 or CAN) communication
- Data logging up to 350 events
- Password protection



Key dimensions and Weights





GENERATOR DATA *						
L = LENGTH - inch (mm)	W = WIDTH - inch (mm)	H = HEIGHT - inch (mm)	DRY WEIGHT - lbs (kg)			
114.5 (2908.3)	44 (1117.6)	63.0 (1600.2)	5290.3 (2399.3)			

* All measurements are approximate and for estimation purposes only. Images are reference only. Any deviation can change dimensions.

Materials and specifications subject to change without notice.







Simson Maxwell

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