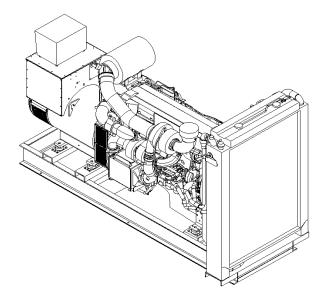


SMW1000 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime



60Hz POWER RATINGS

Voltage AC	Dhaco	PF	Standby		Prime*	
Vollage AC	FIIdSE	ГГ	KW	А	Kw	А
120/208	3	0.8	1049	3641	950	3297
120/240	3	0.8	1049	3156	950	2857
277/480	3	0.8	1051	1579	951	1430
347/600	3	0.8	1053	1266	953	1146

* 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, selfexcited, 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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ENGINE SPECIFICATION				
Manufacturer	Mitsubishi			
Model	S12HY1PTA-3			
EPA certified	Tier-1			
Crank shaft speed: rpm	1800			
Fuel type	Diesel			
Injection	Direct			
Aspiration	Turbocharged			
Number of cylinder	12			
Cylinder arrangement	60 °V			
Displacement: L	37.11			
Bore: mm	150			
Stroke: mm	175			
Engine standby power: kW	1100.0			
Engine prime power: kW	996.0			
Cooling	Water cooled			
Governor	Electronic			
Starting motor voltage	24V DC			
Compression ration	14.5:1			
Air cleaner type	Not Included			
EXHAUST SYSTEM				
Maximum engine exhaust temperature: °F (°C)	842 (450)			
Exhaust gas flow: CFM (m3/hr)	9392.0 (15957.2)			
Max. permissible back pressure: PSI (kPA) COOLING SYSTEM	0.853 (5.9)			
Radiator cooling air flow: CFM (m3/hr)	63558 (107986) @Max 40 °C ambient temperature			
Max. restriction of cooling air: in.w.g. (kPA)	0.402 (0.1)			
Engine combustion air flow: CFM (m3/hr)	3566 (6059)			
Total intake air requirement: CFM (m3/hr)	67124 (114044.5)			
Total coolant capacity: Litre	ТВА			
HEAT BALANCE				
Heat at rejection to coolant: kW	734.0			
Heat at rejection radiation from engine: kW	89.0			
Heat at rejection to engine exhaust: kW	975.0			
LUBRICATION SYSTEM				
Oil pan capacity: Litre	180.0			
Oil pan capacity with filter: Litre	200.0			
Oil cooler	Water cooled, Multi plate type cooler			
Recommended lubricating oil grade	Refer OEM Specification 98CAB-60503			
Oil consumption at full load: Litre/hr	2.8353			
Oil pressure: PSI (kPA)	73 (503)			



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ENGINE ELECTRICAL SYSTEM		041/00		
Starting motor voltage		24V DC		
Battery capacity		2X8D, 24V, 1500A		
Cranking Amps minimum		1250 A at -17.8 ℃		
FUEL SYSTEM				
Recommended fuel		ASTM D975 No. 1-D, No. 2-D		
Fuel supply line, min. ID: mm		25.0		
Fuel return line min. ID: mm		25.0		
Fuel supply line max. restriction: kpa		10		
Fuel pump type		Engine driven gear pump		
Fuel filter		Two stage fuel filter		
FUEL CONSUMPTION Standby Power		Prime Power		
100% Load Standby: Litre/hr	283.5	100% Load Prime: Litre/hr	255.9	
75% Load Standby: Litre/hr	211.6	75% Load Prime: Litre/hr	193.8	
50% Load Standby: Litre/hr	148.0	50% Load Prime: Litre/hr 137.0		
25% Load Standby: Litre/hr	87.1	25% Load Prime: Litre/hr	80.6	
ALTERNATOR SPECIFICATION				
Alternator manufacturer		STAMFORD		
Alternator model		HCI634		
Voltage		120V - 480V, 600V		
Alternator type		Four pole, Rotating field		
Excitation system		Brushless, PMG (MX321)		
Power factor		0.8		
Number of leads		12 leads reconnectable (120V-480V), 6 leads dedicated (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	± 0.5%		
TIF		<50		
Line harmonics		5% MAXIMUM		
Alternator cooling air flow: CFM (m3/	hr)	4156 (7062)		
STANDARD FEATURES				
 Radiator with pusher fan 		Standard fuel filter		
 Medium-duty, Not Included 		 All rotating components protected with metal guards 		
Heavy-duty engine start batteries with	th 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)	1797.7 (6804.8)	3595.3 (13609.5)	5392.9 (20414.2)	
Tank size: L x W x H - inch	181 x 86 x 31	197 x 111 x 40	197 x 164 x 40	
Tank size: L x W x H - m	4.6 x 2.2 x 0.8	5 x 2.9 x 1	5 x 4.2 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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SMW1000 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime

Control Systems Standard Features - Generator Digital Control Panel

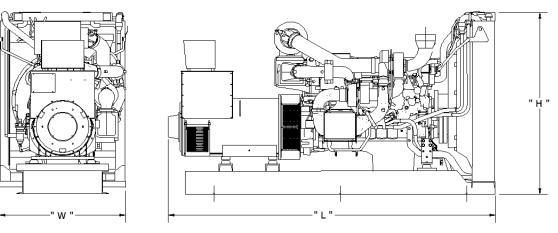
Standard Configuration of Control Systems

- 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)
180(4572)	85 (2159)	101.0(2565.4)	18279.5(8290)

* 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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