

SGWW1025 T6 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime



60Hz POWER RATINGS¹

Voltage AC	Phase	PF	Standby		Prime ²	
			kW	А	kW	А
277/480	3	0.8	1025	1541	980	1473
347/600	3	0.8	1025	1233	980	1179
2402/4160	3	0.8	1025	178	980	170

¹ All the ratings mentioned are without radiator power consumption. Power may vary based on radiator selection

² Prime power rating is for reference only. Actual power may vary depending on fuel gas quality and operating condition like altitude and ambient temperature

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, Natural Gas (NG) engines from a world-renowned manufacturer for economy of operation and maximum reliability and durability. Capable of step load and rated load acceptance as per engine manufacturer's specification.
- Cooling: Radiator with belt driven pusher fan or motor driven remote radiator.
- Filtration: Light 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 and belt driven charging alternator.
- CSA certified and meets CSA C282 requirements.



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ENGINE SPECIFICATION			
Manufacturer	Waukesha		
Model	L5794LT		
Crank shaft speed: rpm	1200		
Fuel type	Natural Gas		
Aspiration	Turbocharged		
Number of cylinder	12		
Cylinder arrangement	60°V		
Displacement: L	94.9		
Bore: mm	216		
Stroke: mm	216		
Engine standby power: kW	1025		
Engine prime power: kW	980		
Cooling	Water cooled		
Governor	Electronic		
Starting motor voltage	24V DC		
Compression ration	10.2:1		
Air cleaner type	Light duty air cleaner		
EXHAUST SYSTEM			
Maximum engine exhaust temperature: °F (°C)	892.4 (478)		
Exhaust gas flow: CFM (m3/hr)	3226.0 (5481)		
Max. permissible back pressure: PSI (kPA)	0.289 (2)		
AIR INTAKE & COOLANT ^{1 2 3}			
Engine combustion air flow: CFM (m3/hr)	3357 (5704)		
Coolant capacity: Litre	448		
HEAT BALANCE			
Heat at rejection to coolant: kW	1185.0		
Heat at rejection radiation from engine: kW	135.0		
Heat at rejection to engine exhaust: kW	1023.0		
LUBRICATION SYSTEM⁴			
Oil pan capacity: Litre	340.0		
Oil pan capacity with filter: Litre	719.0		
Oil cooler	Integrated full flow		
Recommended lubricating oil grade	As per OEM Spec S1015-36		
Oil consumption at full load: Litre/hr	1.3856		
Oil pressure: PSI (kPa)	55.2 (380)		

¹ SIMMAX recommends to limit the enclosure air intake velocity to 650ft/minute, and the discharge air velocity to 750 ft/min.

³ SIMMAX offers options of Air Fuel Ratio Controller and Catalytic converter to ensure engines are emission compliant.

⁴ Oil consumption value is approximate maximum value for reference only.

² SIMMAX offers unit mounted radiator or remote radiator solutions based on site requirements.



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ENGINE ELECTRICAL SYSTEM						
Starting motor voltage		24V DC				
Battery capacity		2X8D, 24V, 1500A				
Cranking Amps minimum		-				
FUEL SYSTEM						
Recommended fuel		As per OEM Spec S7884-12				
Fuel supply line, min. ID: mm		50.0				
Fuel supply line max. pressure: kPa			414			
Fuel supply line min. pressure: kPa		296.0				
FUEL CONSUMPTION ¹	Standby Power			Prime Power		
100% Load Standby: BTU/hr	10706230.0	100% Lo	oad Prime: BTU/hr	10354299.9		
75% Load Standby: BTU/hr	8343146.5	75% Loa	ad Prime: BTU/hr	7976862.0		
50% Load Standby: BTU/hr	5789752.3	50% Loa	ad Prime: BTU/hr	5535568.0		
25% Load Standby: BTU/hr	3218182.5	25% Loa	ad Prime: BTU/hr	2944589.9		
ALTERNATOR SPECIFICATION						
Alternator manufacturer		STAMFORD				
Alternator model		PI736				
Voltage		480V, 600V				
Alternator type		Six pole, Rotating field				
Excitation system		Brushless, PMG (MX321)				
Power factor		0.8				
Number of leads		ТВА				
Stator pitch		2/3				
Enclosure rating			IP23			
Amortisseur windings		Full				
Voltage regulation		± 0.5%				
TIF		<50				
Line harmonics			5% MAXIMUM			
Alternator cooling air flow: CFM (m3/hr)			(8281)			
STANDARD FEATURES						
Radiator with pusher fan		Vibration isolators				
Light duty air cleaner		 All rotating components protected with metal guards 				
Light-duty engine start batteries with cables		Operation and maintenance manual				
Emergency stop switch			CSA certified			
Control Panel (See next page for details)		Steel base for mounting				

¹ Total fuel consumption may very based on the radiator fan power consumption.



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Control Systems Standard Features - Generator Digital Control Panel

Standard Configuration of Control Systems

- InteliLite MRS 16 Controller
- 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
- Option available for InteliGen-NT controller, expansion modules for additional IOs and communication.



Key dimensions and Weights¹



GENERATOR DATA ²						
L = LENGTH - inch (mm)	W = WIDTH - inch (mm)	H = HEIGHT - inch (mm)	DRY WEIGHT - lbs (kg)			
210 (5334)	84 (2133.6)	110(2794)	34700.0 (15739.7)			

¹Images are reference only.

²All measurements are approximate and for estimation purposes only. Any deviation can change dimensions. Materials and specifications subject to change without notice.



Simson Maxwell

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