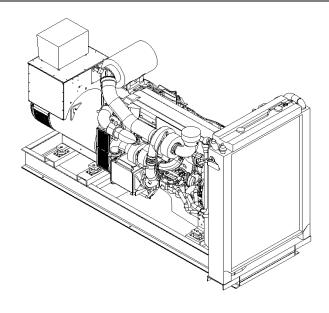




DIESEL PRODUCT LINE

SDW20 T6-T2 120/240/208/480 Volts 60 Hz/1800 RPM | Standby/Prime



60Hz POWER RATINGS

Valtage AC	Dhaga	PF	Standby		Prime*	
Voltage AC	riiase	FF	KW	Α	Kw	Α
120/240	1	1	30	125	29	120
120/208	3	8.0	31	108	30	104
277/480	3	8.0	31	47	30	45

^{*} 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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ENGINE SPECIFICATION				
Manufacturer	Deutz			
Model	D2011L04i			
EPA certified	Tier-2			
Crank shaft speed: rpm	1800			
Fuel type	Diesel			
Injection	Direct			
Aspiration	Natural			
Number of cylinder	4			
Cylinder arrangement	Inline			
Displacement: L	3.62			
Bore: mm	96			
Stroke: mm	125			
Engine standby power: kW	36.0			
Engine prime power: kW	34.5			
Cooling	Water cooled			
Governor	Electronic			
Starting motor voltage	12V DC			
Compression ration	19.0:1			
Air cleaner type	Dry type with paper element			
EXHAUST SYSTEM				
Maximum engine exhaust temperature: $^{\circ}F$ ($^{\circ}C$)	1292 (700)			
Exhaust gas flow: CFM (m3/hr)	330.0 (560.7)			
Max. permissible back pressure: PSI (kPA)	1.161 (8)			
COOLING SYSTEM *				
Radiator cooling air flow: CFM (m3/hr)	1378 (2342) @Max 40 ℃ ambient temperature			
Max. restriction of cooling air: in.w.g. (kPA)	0.402 (0.1)			
Engine combustion air flow: CFM (m3/hr)	124 (211)			
Total intake air requirement: CFM (m3/hr)	1502 (2552)			
Total coolant capacity: Litre	13.5			
HEAT BALANCE				
Heat at rejection to coolant: kW	20.2			
Heat at rejection radiation from engine: kW	5.0			
Heat at rejection to engine exhaust: kW	TBA			
LUBRICATION SYSTEM				
Oil pan capacity: Litre	8.0			
Oil pan capacity with filter: Litre	10.0			
Oil cooler	Integrated oil cooler			
Recommended lubricating oil grade	TR0199-99-1216			
Oil consumption at full load: Litre/hr	0.05			
Oil pressure: PSI (kPA)	29.1 (200)			

^{*} SIMMAX recommends to limit the building air intake velocity to 650ft/minute, and the discharge air velocity to 750 ft/min.

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Tank size: L x W x H - m

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ENGINE ELECTRICAL SYSTEM		10// DO			
Starting motor voltage			12V DC		
Battery capacity		4D, 12V, 1000A			
Cranking Amps minimum		950A at +20 ℃			
FUEL SYSTEM		ACTM D 07F 1 D/0 D IIC K000	4 Creade 4 / 0		
Recommended fuel			ASTM D 975 1-D/2-DJIS K2204 Grade-1/-2		
Fuel supply line, min. ID: mm		15.0 15.0			
Fuel return line min. ID: mm Fuel supply line max. restriction: kpa		30			
		Engine-driven			
Fuel pump type Fuel filter		Replaceable cartridge			
FUEL CONSUMPTION	Standby Power	riopiaceable cartriage	Prime Power		
100% Load Standby: Litre/hr	9.9	100% Load Prime: Litre/hr	9.0		
75% Load Standby: Litre/hr	7.3	75% Load Prime: Litre/hr	6.6		
50% Load Standby: Litre/hr	5.1	50% Load Prime: Litre/hr	4.6		
25% Load Standby: Litre/hr	3.0	25% Load Prime: Litre/hr	2.7		
ALTERNATOR SPECIFICATION					
Alternator manufacturer		STAMFORD			
Alternator model		PI144			
/oltage		120V - 480V			
Alternator type		Four pole, Rotating field			
Excitation system		Brushless, Self excited (EBS option available)			
Power factor		0.8			
Number of leads		12 leads reconnectable (120V-480V)			
Stator pitch		2/3			
Insulation		Class H			
Windings - temperature rise / Ambier	nt ℃	125 / 40			
Enclosure rating		IP23			
Bearing		Single, Sealed			
Amortisseur windings	1 11 DOD 41/D	Full			
oltage regulation - no lead to full loa	ad with DSR AVR	± 1%			
ΓIF		<50 5% MAXIMUM			
ine harmonics	/la.w\				
Alternator cooling air flow: CFM (m3	/nr)	251 (427)			
STANDARD FEATURES					
Radiator with pusher fan		Standard fuel filter			
Medium-duty, Dry type with paper e	lement	 All rotating components protected with metal guards 			
Heavy-duty engine start batteries w	ith 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	,				
Runtime	24 hour	48 hour	72 hour		
Tank volume - US gal (L)	62.8 (237.6)	125.6 (475.2)	188.4 (712.8)		
Tank size: L x W x H - inch	66 x 31 x 11	66 x 31 x 17	66 x 31 x 26		
Tank sizo: L x W x H m	17 × 0.8 × 0.2	17,00,05	17,00,00		

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

1.7 x 0.8 x 0.3

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1.7 x 0.8 x 0.5

1.7 x 0.8 x 0.7





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Control Systems Standard Features - Generator Digital Control Panel

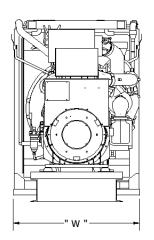
Standard Configuration of Control Systems

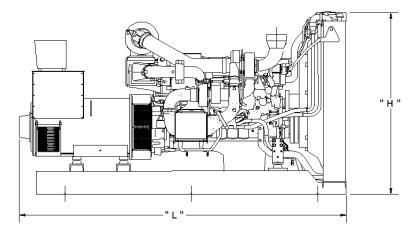
- Numerous control systems available, depending on customer requirements
- Automatic or manual start/stop
- Pre-lube function with timers
- · Adjustable crank attempts
- Engine warm up/cooling functions
- Digital metering with alarms and shutdowns

- 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)				
65 (1651)	30 (762)	34.0 (863.6)	1055.8 (478.8)				

* 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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