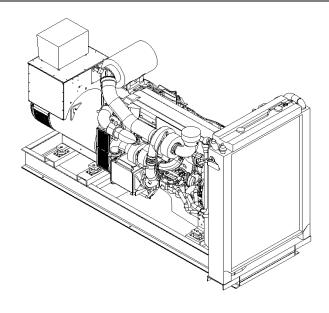




## **DIESEL PRODUCT LINE**

SDW115 T6-T4

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



#### **60Hz POWER RATINGS**

Voltage AC	Dhooo	PF	Standby		Prime*	
Voltage AC Phase	FIIase		KW	Α	Kw	А
120/240	1	1	127	531	121	502
120/208	3	8.0	129	449	123	425
277/480	3	8.0	130	196	123	185
347/600	3	8.0	130	157	123	148

<sup>\*</sup> 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.

# **SIMMAX**



# **DIESEL PRODUCT LINE**

SDW115 T6-T4

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ENGINE SPECIFICATION			
Manufacturer	Deutz		
Model	TCD2013L062VC		
EPA certified	Tier-4I		
	1800		
Crank shaft speed: rpm	Diesel		
Fuel type Injection	Direct		
Aspiration	Turbocharged		
Number of cylinder	6		
Cylinder arrangement	Inline		
Displacement: L	7.1		
Bore: mm	108		
Stroke: mm	130		
Engine standby power: kW	140.4		
Engine prime power: kW	132.9		
Cooling	Water cooled		
Governor	Electronic-EMR4		
Starting motor voltage	12V DC		
Compression ration	18.0:1		
Air cleaner type	Dry type with paper element		
EXHAUST SYSTEM			
Maximum engine exhaust temperature: °F (°C)	860 (460)		
Exhaust gas flow: CFM (m3/hr)	1074.0 ( 1824.8 )		
Max. permissible back pressure: PSI (kPA)	0.436 (3)		
COOLING SYSTEM			
Radiator cooling air flow: CFM (m3/hr)	7840 (13321) @Max 40 ℃ ambient temperature		
Max. restriction of cooling air: in.w.g. (kPA)	1.005 ( 0.3 )		
Engine combustion air flow: CFM (m3/hr)	371 (631)		
Total intake air requirement: CFM (m3/hr)	8211 (13950.6)		
Total coolant capacity: Litre	34		
HEAT BALANCE	07.0		
Heat at rejection to coolant: kW	97.0		
Heat at rejection radiation from engine: kW	14.0		
Heat at rejection to engine exhaust: kW	TBA		
LUBRICATION SYSTEM			
Oil pan capacity: Litre	20.0		
Oil pan capacity with filter: Litre	22.0		
Oil cooler	Integrated oil cooler		
Recommended lubricating oil grade	TR0199-99-1217		
Oil consumption at full load: Litre/hr	0.044		
Oil pressure: PSI (kPA)	29.1 ( 200 )		

# SIMMAX



# DIESEL PRODUCT LINE

SDW115 T6-T4

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ENGINE ELECTRICAL SYSTEM					
Starting motor voltage		12V DC			
Battery capacity		4D, 12V, 1000A			
Cranking Amps minimum		4D, 12V, 1000A 110AH A at -5℃			
		TIVAH A at -5 °C			
FUEL SYSTEM		ACTM D 075 1 D/0 D			
Recommended fuel		ASTM D 975 1-D/2-D			
Fuel supply line, min. ID: mm		15.0			
Fuel return line min. ID: mm		15.0			
Fuel supply line max. restriction: kpa		16.67			
Fuel pump type		Engine-driven			
	Fuel filter		Single stage Oil and Fuel Filter with Pre Filter		
FUEL CONSUMPTION	Standby Power	Prime Power			
100% Load Standby: Litre/hr	43.7	100% Load Prime: Litre/hr	39.7		
75% Load Standby: Litre/hr	37.1	75% Load Prime: Litre/hr	33.7		
50% Load Standby: Litre/hr	26.0	50% Load Prime: Litre/hr	23.6		
25% Load Standby: Litre/hr	14.9	25% Load Prime: Litre/hr	13.5		
ALTERNATOR SPECIFICATION		OTAMEODD			
Alternator manufacturer			STAMFORD		
Alternator model		UCI274			
Voltage			120V - 480V, 600V		
Alternator type		Four pole, Rotating field			
Excitation system		Brushless, Self excited (PMG option available)			
Power factor		0.8			
Number of leads		12 leads reconnectable (120V-480V-600V)			
Stator pitch		2/3			
Insulation		Class H			
Windings - temperature rise / Ambier	nt °C	125 / 40			
Enclosure rating		IP23			
Bearing		Single, Sealed			
Amortisseur windings	1 ''I DOD AVD	Full			
Voltage regulation - no lead to full loa	id with DSR AVR	± 1%			
TIF		<50			
Line harmonics	<i>u</i>	5% MAXIMUM			
Alternator cooling air flow: CFM (m3	/hr)	1308 ( 2223 )			
STANDARD FEATURES					
Radiator with pusher fan		Standard fuel filter			
<ul> <li>Medium-duty, Dry type with paper e</li> </ul>		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	FUEL TANK *				
Runtime	24 hour	48 hour	72 hour		
Tank volume - US gal (L)	276.9 (1048.1)	553.8 (2096.2)	830.7 (3144.3)		
Tank size: L x W x H - inch	103 x 36 x 21	103 x 36 x 38	143 x 36 x 40		
Tank size: L x W x H - m	2.6 x 0.9 x 0.6	2.6 x 0.9 x 1	3.7 x 0.9 x 1		

<sup>\*</sup> All measurements are approximate and for estimation purposes only. The tank dimensions may vary. For specific sizes, contact sales representative.





## **DIESEL PRODUCT LINE**

SDW115 T6-T4

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### Control Systems Standard Features - Generator Digital Control Panel

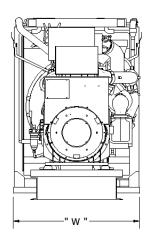
#### **Standard Configuration of Control Systems**

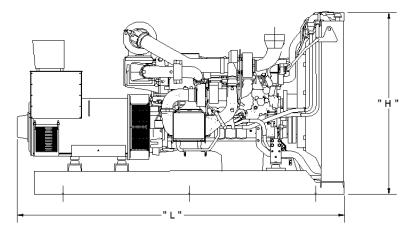
- Numerous control systems available, depending on customer requirements
- Automatic or manual start/stop
- Pre-lube function with timers
- · Adjustable crank attempts
- Engine warm up/cooling functions
- Digital metering with alarms and shutdowns

- 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)				
102 ( 2590.8 )	35 ( 889 )	57.0 ( 1447.8 )	3461.3 ( 1569.8 )				

\* 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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