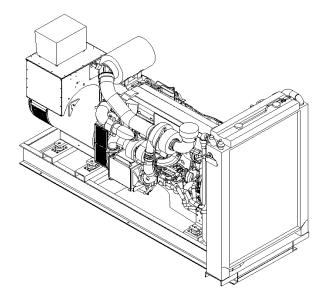


SPW660 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime



### **60Hz POWER RATINGS**

Voltage AC	Phase	PF	Standby		Prime*		
			KW	А	Kw	А	
	120/208	3	0.8	663	2299	602	2090
	120/240	3	0.8	663	1993	602	1811
	277/480	3	0.8	664	998	604	907
	347/600	3	0.8	665	800	604	727

\* 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.



SPW660 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime

ManufacturerPerkinsModel4006-23 TAG2AEPA certifiedTier-1Crank shaft speed: rpm1800Fuel typeDieselInjectionDirectAspirationTurbochargedNumber of cylinder6Cylinder arrangementInlineDisplacement: L22.921Bore: mm160Stroke: mm190Engine standby power: kW702.0CoolingWater cooledGovernorElectronicStandby power: kW538.0CoolingWater cooledGovernorSingle stage-Paper CartridgeEYHAUST SYSTEMWater cooledCould arrangement tippeSingle stage-Paper CartridgeEXHAUST SYSTEMWater cooledCould arrange of cooling air flow: CFM (m3/hr)671.0.0 (11400.4.)Max. permissible back pressure: FSI (kPA)0.871 (6.)COLING SYSTEMVater cooled in air flow: CFM (m3/hr)Max. restriction of cooling air, in.w.g. (kPA)0.483 (0.2.)Engine combustion air flow: CFM (m3/hr)40259 (65401.) @Max 40.*C ambient temperatureMax. restriction of cooling air, in.w.g. (kPA)0.483 (0.2.)Engine combustion air flow: CFM (m3/hr)40259 (65401.)Meat ar ejection to engine what: KW489.0Heat at rejection to coolant; kW489.0Heat at rejection to coolant; kW489.0Heat at rejection to engine what: KW689.0UIP an capacity: Litre122.7Oil coolar radiator from engine: kW880.0He	ENGINE SPECIFICATION			
EPA certified         Tier-1           Crank shaft speed: rpm         1800           Fuel type         Dissel           Injection         Direct           Aspiration         Turbocharged           Number of cylinder         6           Cylinder arrangement         Inline           Displacement: L         22.921           Bore: mm         160           Stroke: mm         190           Engine standby power: kW         702.0           Engine standby power: kW         638.0           Cooling         Water cooled           Governor         Electronic           Starting motor voltage         24V DC           Compression ration         13.6:1           Air cleaner type         Single stage-Paper Cartridge           EXHAUST SYSTEM         Water cooled           Maximum engine exhaust temperature: 'F (*C)         806 (430)           Exhaust gas flow: CFM (m3/hr)         6/10.0 (11400.4)           Max. restriction of cooling air: in.w.g. (kPA)         0.483 (0.2)           Engine combustion air flow: CFM (m3/hr)         40259 (68401)         @Max 40*C ambient temperature           Max. restriction of cooling air: in.w.g. (kPA)         0.483 (0.2)         Engine combustion air flow: CFM (m3/hr)         42802	Manufacturer	Perkins		
Crank shaft speed: rpm         1800           Fuel type         Diesel           Injection         Direct           Aspiration         Turbocharged           Number of cylinder         6           Cylinder arrangement         Inline           Displacement: L         22.921           Bore: mm         160           Stroke: mm         190           Engine standby power: kW         638.0           Cooling         Water cooled           Governor         Electronic           Starting motor voltage         24V DC           Compression ration         13.6:1           Air cleaner type         Single stage-Paper Cartridge           EXHAUST SYSTEM         E           Maxinum engine exhaust temperature: *F (*C)         806         (430)           Exhaust System         0.871         6)           COOLING SYSTEM         E         E           Radiator cooling air flow: CFM (m3/hr)         42820         (72721.1)           Total intake air requirement: CFM (m3/hr)         2543         (4321)           Total coolant capacity: Litre         120         E           HEAT TALANCE         E         E           UBatt rejection to coolant: kW         4	Model	4006-23 TAG2A		
Fuel type     Diesel       Injection     Direct       Aspiration     Turbocharged       Number of cylinder     6       Cylinder arrangement     Inline       Displacement: L     22.921       Bore: mm     160       Stroke: mm     190       Engine standby power: kW     702.0       Engine prime power: kW     638.0       Cooling     Water cooled       Governor     Electronic       Starting motor voltage     24V DC       Compression ration     13.6:1       Air cleaner type     Single stage-Paper Cartridge       EXHAUST SYSTEM     Maximum engine exhaust temperature: "F (°C)     806 (430)       Max. permissible back pressure: PSI (kPA)     0.871 (6)       COOLING SYSTEM     Maximum engine exhaust temperature: "F (°C)     806 (430.40)       Max. permissible back pressure: PSI (kPA)     0.871 (6)       COOLING SYSTEM     T       Radiator cooling air flow: CFM (m3/hr)     40259 (68401) @Max 40°C ambient temperature       Max. restriction of cooling air: in.w.g. (kPA)     0.433 (0.2.2)       Engine combustion air flow: CFM (m3/hr)     2543 (4321)       Total intake air requirement: CFM (m3/hr)     42802 (72721.1)       Total intake air requirement: CFM (m3/hr)     2543 (4321)       Total colant capacity: Litre     120 </td <td>EPA certified</td> <td colspan="3"></td>	EPA certified			
InjectionDirectAspirationTurbochargedAspirationTurbochargedAumber of cylinder6Cylinder arrangementInlineDisplacement: L22.921Bore: mm160Stroke: mm190Engine standby power: kW702.0Engine prime power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper CartridgeEXHAUST SYSTEMWater cooledCooling alf flow: CFM (m3/hr)6710.0 (11400.4)Max. permissible back pressure: PSI (kPA)0.871 (6)COULNE SYSTEMVater structureMax. restriction of cooling air in.w.g. (kPA)0.483 (0.2)Engine combustion air flow: CFM (m3/hr)2543 (4321)Total intake air requirement: CFM (m3/hr)2543 (4321)Total intake air requirement: CFM (m3/hr)42802 (72721.1)Total ontake air requirement: CFM (m3/hr)42802 (72721.1)Total intake air requirement: CFM (m3/hr)42802 (72721.1)Total coolant capacity: Litre120HEAT BALANCEVaterUBRICATION SYSTEM0.0UBRICATION SYSTEM01Oil pan capacity: Litre113.4Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil coolerI	Crank shaft speed: rpm	1800		
AspirationTurbochargedNumber of cylinder arrangementInlineDisplacement: L22.921Bore: mm160Stroke: mm190Engine standby power: kW702.0Engine prime power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper CartridgeEXAUST SYSTEMWater cooledMaximum engine exhaust temperature: °F (°C)806 (430)Exhaust gas flow: CFM (m3/hr)6710.0 (11400.4)Max. permissible back pressure: PSI (kPA)0.871 (6)COOLING SYSTEMEMadiator cooling air flow: CFM (m3/hr)40259 (68401) @Max 40°C ambient temperatureMax. restriction of cooling air: in.w.g. (kPA)0.483 (0.2)Engine conbustion air flow: CFM (m3/hr)2543 (4321)Total coolant capacity: Litre120Heat at rejection to coolant: kW489.0Heat at rejection to coolant: kW80.0Heat at rejection to coolant: kW489.0Heat at rejection radiation from engine: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre113.4Oil pan capacity with filter: Litre0.1Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4 </td <td>Fuel type</td> <td colspan="3"></td>	Fuel type			
Number of cylinder         6           Cylinder arrangement         Inline           Displacement: L         22.921           Bore: mm         160           Stroke: mm         190           Engine standby power: kW         702.0           Engine prime power: kW         638.0           Cooling         Water cooled           Governor         Electronic           Starting motor voltage         24V DC           Compression ration         13.61           Air cleaner type         Single stage-Paper Cartridge           EXHAUST SYSTEM         Exhaust gas flow: CFM (m3/hr)           Maximum engine exhaust temperature: "F (°C)         806 (430)           Exhaust gas flow: CFM (m3/hr)         6710.0 (11400.4)           Max, permissible back pressure: PSI (kPA)         0.871 (6)           COOLING SYSTEM         E           Radiator cooling air flow: CFM (m3/hr)         40259 (68401) @Max 40°C ambient temperature           Max, restriction of cooling air: in.w.g. (kPA)         0.483 (0.2)           Engine combustion air flow: CFM (m3/hr)         2543 (4321)           Total intake air requirement: CFM (m3/hr)         42802 (72721.1)           Total intake air requirement: CFM (m3/hr)         42802 (72721.1)           Total intake air requirement:	Injection	Direct		
Cylinder arangementInlineDisplacement: L22.921Bore: mm160Stroke: mm190Engine prime power: kW702.0Engine prime power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper CartridgeEXHAUST SYSTEMWater cooledMaximum engine exhaust temperature: °F (°C)806 ( 430 )Exhaust gas flow: CFM (m3/hr)6710.0 ( 11400.4 )Max. permissible back pressure: PSI (kPA)0.871 ( 6 )COOLING SYSTEMWater cooling air: inw.g. (kPA)Max. restriction of cooling air: inw.g. (kPA)0.483 ( 0.2 )Engine combustion air flow: CFM (m3/hr)40259 ( 68401 ) @Max 40°C ambient temperatureMax. restriction of cooling air: inw.g. (kPA)0.483 ( 0.2 )Engine combustion air flow: CFM (m3/hr)42802 ( 72721.1 )Total coolant capacity: Litre120Heat at rejection to coolant: kW489.0Heat at rejection to coolant: kW489.0Heat at rejection to coolant: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre122.7Oil pan capacity with filter: Litre122.7Oil pan capacity with filter: Litre122.7Oil consumption at full load; Litre/hr0.4Oil consumption at full load; Litre/hr0.4Oil consumption at full load; Litre/hr0.4	Aspiration	Turbocharged		
Displacement: L         22.921           Bore: mm         160           Stroke: mm         190           Engine standby power: kW         702.0           Engine standby power: kW         638.0           Cooling         Water cooled           Governor         Electronic           Starting motor voltage         24V DC           Compression ration         13.61           Air cleaner type         Single stage-Paper Cartridge           EXHAUST SYSTEM         Maximum engine exhaust temperature: "F (°C)         806 ( 430 )           Maximum engine exhaust temperature: "F (°C)         806 ( 430 )         Exhaust gas flow: CFM (m3/hr)           Maxing as flow: CFM (m3/hr)         6710.0 ( 11400.4 )         Max 40 °C ambient temperature           Maxing as flow: CFM (m3/hr)         40259 ( 68401 ) @Max 40 °C ambient temperature           Max restriction of cooling air: in.w.g. (kPA)         0.483 ( 0.2 )           Engine combustion air flow: CFM (m3/hr)         42802 ( 72721.1 )           Total intake air requirement: CFM (m3/hr)         42802 ( 72721.1 )           Total coolant capacity: Litre         120           HEAT BALANCE         Electron regine: kW           Heat at rejection to colant: kW         489.0           Heat at rejection to colant: kW         689.0     <	Number of cylinder	6		
Bore: mm160Stroke: mm190Engine stadby power: kW702.0Engine stadby power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper Cartridge <b>EXHAUST SYSTEM</b> 0.871Maximum engine exhaust temperature: °F (°C)806Max, permissible back pressure: PSI (kPA)0.871OOLING SYSTEM0.871Radiator cooling air: Inv.g. (kPA)0.483Max, restriction of cooling air: Inv.g. (kPA)0.483Max restriction of cooling air: Inv.g. (kPA)0.483Otal take air requirement: CFM (m3/hr)4025942802(72721.1)Total coolant capacity: Litre120Heat at rejection to coolant: kW889.0Heat at rejection to coolant: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Cylinder arrangement	Inline		
Stroke: mm190Engine standby power: kW702.0Engine power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper CartridgeEXAUUST SYSTEMImage: CPM (m3/hr)Maximum engine exhaust temperature: °F (°C)806(430)Exhaust gas flow: CFM (m3/hr)GOLING SYSTEM0.871Maxinum engine exhaust temperature: °F (°C)806Radiator cooling air flow: CFM (m3/hr)0.871Goloaning air flow: CFM (m3/hr)40259Adata cooling air flow: CFM (m3/hr)40259Max. restriction of cooling air: in.w.g. (kPA)0.483Out at a rejection to coolant: kW489.0Heat at rejection to coolant: kW489.0Heat at rejection to coolant: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil pan capacity: Litre1122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Displacement: L	22.921		
Engine standby power: kW702.0Engine prime power: kW638.0CoolingWater cooledGovernorElectronicStarting motor voltage24V DCCompression ration13.6:1Air cleaner typeSingle stage-Paper CartridgeEXHAUST SYSTEM6710.0Maximum engine exhaust temperature: °F (°C)806600 (430)6710.0Exhaust gas flow: CFM (m3/hr)6710.0Max. permissible back pressure: PSI (kPA)0.871COOLING SYSTEM6Radiator cooling air: in.w.g. (kPA)0.483Otal coolant capacity: Litre120Heat ar rejection iar flow: CFM (m3/hr)40259Yeat Back Date120Heat ar rejection coolant: kW489.0Heat at rejection to coolant: kW889.0Heat at rejection to engine exhaust: kW689.0LUBICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4				
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Engine combustion air flow: CFM (m3/hr)2543 (4321)Total intake air requirement: CFM (m3/hr)42802 (72721.1)Total coolant capacity: Litre120HEAT BALANCE120Heat at rejection to coolant: kW489.0Heat at rejection radiation from engine: kW80.0Heat at rejection to engine exhaust: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4				
Total intake air requirement: CFM (m3/hr)42802 (72721.1)Total coolant capacity: Litre120HEAT BALANCE120Heat at rejection to coolant: kW489.0Heat at rejection radiation from engine: kW80.0Heat at rejection to engine exhaust: kW689.0LUBRICATION SYSTEM113.4Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4				
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LUBRICATION SYSTEMOil pan capacity: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Heat at rejection radiation from engine: kW	80.0		
Oil pan capacity: Litre113.4Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Heat at rejection to engine exhaust: kW	689.0		
Oil pan capacity with filter: Litre122.7Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	LUBRICATION SYSTEM			
Oil coolerIntegrated full flowRecommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Oil pan capacity: Litre	113.4		
Recommended lubricating oil gradeOil confirming to API-CG4 15W/40Oil consumption at full load: Litre/hr0.4	Oil pan capacity with filter: Litre	122.7		
Oil consumption at full load: Litre/hr 0.4	Oil cooler	Integrated full flow		
	Recommended lubricating oil grade	Oil confirming to API-CG4 15W/40		
	Oil consumption at full load: Litre/hr	0.4		
		39.2 (270)		



SPW660 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime

ENGINE ELECTRICAL SYSTEM		0414 DO			
Starting motor voltage		24V DC			
Battery capacity			2X4D, 24V, 1000A		
Cranking Amps minimum		542 A at +20 ℃			
FUEL SYSTEM					
Recommended fuel		BS2869 1998 Class A1,A2			
Fuel supply line, min. ID: mm		15.0			
Fuel return line min. ID: mm		15.0			
Fuel supply line max. restriction: kpa	1	20.85			
Fuel pump type		Engine-driven			
Fuel filter		Fuel filter: 0.010mm			
FUEL CONSUMPTION	Standby Power		Prime Power		
100% Load Standby: Litre/hr	202.0	100% Load Prime: Litre/hr	175.0		
75% Load Standby: Litre/hr	132.0	75% Load Prime: Litre/hr	120.0		
50% Load Standby: Litre/hr	91.0	50% Load Prime: Litre/hr	82.7		
25% Load Standby: Litre/hr	-	25% Load Prime: Litre/hr -			
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 / Ambie	nt ℃	125 / 40			
Enclosure rating		IP23			
Bearing		Single, Sealed			
Amortisseur windings		Full			
Voltage regulation - no lead to full lo	ad with DSR AVR	± 0.5%			
TIF		<50			
Line harmonics		5% MAXIMUM			
Alternator cooling air flow: CFM (m3	3/hr)	4156 (7062)			
STANDARD FEATURES					
<ul> <li>Radiator with pusher fan</li> </ul>		Standard fuel filter			
Medium-duty, Single stage-Paper	Cartridge	<ul> <li>All rotating components protected with metal guards</li> </ul>			
Heavy-duty engine start batteries v	vith cables	<ul> <li>Operation and installation literature</li> </ul>			
<ul> <li>Emergency stop switch</li> </ul>		CSA certified			
Control Panel (See next page for d	etails)	Steel base for mounting on fuel tank/concrete surface			
OPTIONAL FEATURE: SUB-BASE	,				
Runtime	24 hour	48 hour	72 hour		
Tank volume - US gal (L)	1280.7 (4848)	2561.4 (9696)	3842.1 (14544)		
Tank size: L x W x H - inch	158 x 69 x 31	197 x 80 x 40	197 x 118 x 40		
Tank size: L x W x H - m	4 x 1.8 x 0.8	5 x 2.1 x 1	5 x 3 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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SPW660 T6-T1 120/240/208/480/600 Volts 60 Hz/1800 RPM | Standby/Prime

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

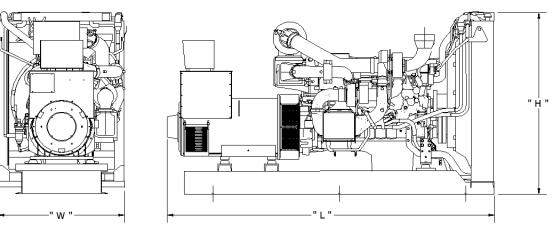
#### **Standard Configuration of Control Systems**

- 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)
157 (3987.8)	68 ( 1727.2 )	91.0(2311.4)	11022.8(4999)

\* 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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