

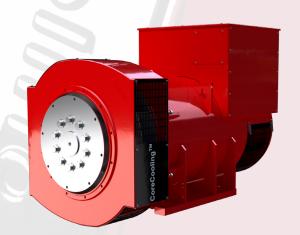
STAMFORD® S-RANGE STAMFORD® S5



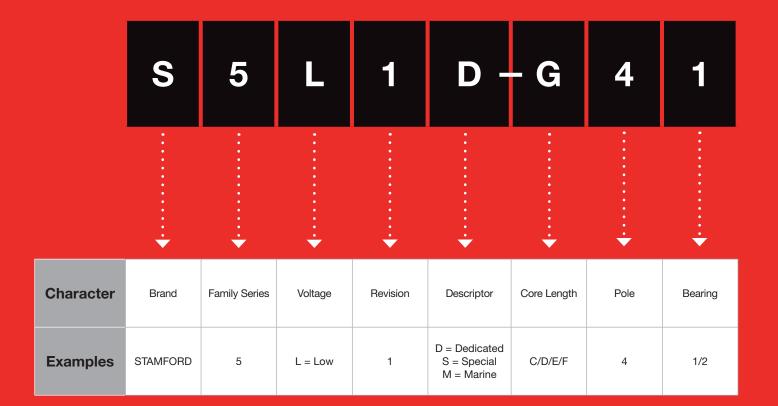
LOW VOLTAGE ALTERNATOR 500-750 kVA 50Hz 594-937 kVA 60Hz

STAMFORD AVK

POWERING TOMORROW, TOGETHER

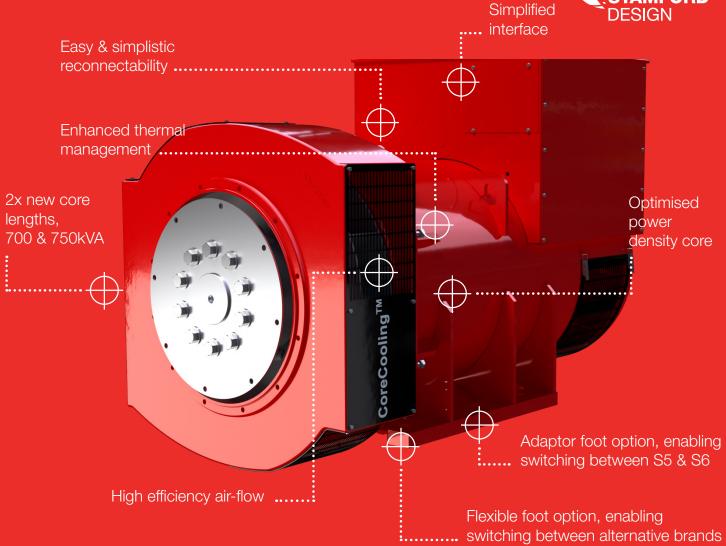


The S5 Nomenclature



STAMFORD S5 Dedicated





Product evolution through technological revolution.

Our new **CoreCooling**™ **technology** results in improved thermal performance and increased power density... it's in the detail.

S5 Dedicated Ratings

50Hz

	Class H 125/40						
	Winding Number			3	11		
,	Volts	38	30	40	00	4	15
4	Model	kW	kVA	kW	kVA	kW	kVA
,	S5L1D-C4	364	455	400	500	364	455
	S5L1D-D4	400	500	440	550	400	500
	S5L1D-E4	480	600	488	610	480	600
d	S5L1D-F4	536	670	536	670	536	670
	S5L1D-G4	544	680	560	700	560	700
	S5L1D-H4	568	710	600	750	600	750

Standby 150/40									
Winding Number	311								
Volts	380		400		415				
Model	kW	kVA	kW	kVA	kW	kVA			
S5L1D-C4	382	478	410	512	382	478			
S5L1D-D4	412	515	460	575	412	515			
S5L1D-E4	509	636	512	640	509	636			
S5L1D-F4	568	710	568	710	568	710			
S5L1D-G4	576	720	592	740	592	740			
S5I 1D-H4	604	755	640	800	640	800			

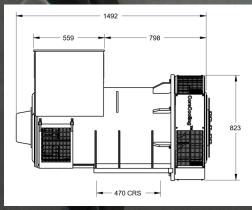
Standby 163/27										
Winding Number		311								
Volts	38	380		400		15				
Model	kW	kVA	kW	kVA	kW	kVA				
S5L1D-C4	400	500	416	520	400	500				
S5L1D-D4	440	550	472	590	440	550				
S5L1D-E4	548	660	532	665	528	660				
S5L1D-F4	590	738	590	738	590	738				
S5L1D-G4	600	750	616	770	616	770				
S5L1D-H4	624	780	660	825	660	825				
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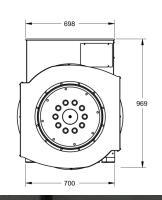
60Hz

Class H 125/40								
Winding Number	311							
Volts	4	416		440		30		
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1D-C4	420	525	440	550	475	594		
S5L1D-D4	460	575	475	594	515	644		
S5L1D-E4	545	681	570	713	600	750		
S5L1D-F4	590	738	620	775	660	825		
S5L1D-G4	600	750	635	794	700	875		
S5L1D-H4	640	800	675	844	750	937		

Standby 150/40										
Winding Number		311								
Volts	4	16	4	40	480					
Model	kW	kVA	kW	kVA	kW	kVA				
S5L1D-C4	440	550	465	581	500	625				
S5L1D-D4	470	588	500	625	540	675				
S5L1D-E4	575	719	600	750	640	800				
S5L1D-F4	625	781	655	819	700	875				
S5L1D-G4	635	794	670	837	730	913				
S5L1D-H4	680	850	715	894	785	981				

Standby 163/27								
Winding Number	311							
Volts	4	16	4	40	480			
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1D-C4	455	569	480	600	515	644		
S5L1D-D4	485	606	515	644	555	694		
S5L1D-E4	590	738	615	869	655	819		
S5L1D-F4	645	806	675	844	725	906		
S5L1D-G4	660	825	695	869	755	944		
S5L1D-H4	705	881	745	931	810	1013		





Specification

MODEL	S5-Dedicated
Ratings at 50Hz (kVA) Class H	450-750
Ratings at 60Hz (kVA) Class H	525-937
Specifications	
Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage Sensing	2 Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 1
Terminals	12
Material Insulation Class	Н
Excitation System	AS440/Self-Exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	_
SAE Adaptors	0.5, 0
Excitation System	PMG
Ingress Protection	IP23 Air Filters
Output Configurations	3 Phase Reconnectable
Voltage sensing	3 Phase sensing
Temperature Monitoring	Winding RTDs
Temperature Monitoring	Thermistors
Environmental Protection	Anti-Condensation Heater
Adaptor Feet	✓
Flexible Feet	✓
Prime Movers	
Diesel Engine	✓
	_

Accessories

	Factory Build Options
	Anti-Condensation Heater (with Terminal Box)
	Quadrature Droop kit
	Bearing RTD
	Air Inlet Filter
	Remote Voltage Trimmer
\	Radio frequency interference (RFI) Suppressor Kit
	Excitation Loss Module
	Diode Failure Detector
	CSA Approval

Available With	MX321	MX341	AS440
Current Sensing Kit	1	1	1
Controlled Short Circuit	1	X	X
Manual Voltage Regulator	1	1	Х
Frequency Detection Module	1	1	X
Power Factor Controller - PFC3	1	1	✓
Remote Control Interface	1	1	✓
Excitation Circuit Breaker	1	1	1
Dual AVR	1	1	Х

Voltage Regulator Options MX341 with PMG MX321 AVR with PMG UL AS440 AVR UL MX341 with PMG

No AVR with or without PMG



Gas Engine



^{**}Please contact our applications department for additional voltages that are available

^{***}Ratings are preliminary and are subject to change throughout 2018

S5 Special Ratings

50Hz

Class H 125/40						
Winding Number	311					
Volts	380		40	00	4	15
Model	kW	kVA	kW	kVA	kW	kVA
S5L1S-C4	364	455	400	500	364	455
S5L1S-D4	400	500	440	550	400	500
S5L1S-E4	480	600	488	610	480	600
S5L1S-F4	536	670	536	670	536	670

Standby 150/40								
Winding Number	311							
Volts	380		400		415			
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1S-C4	382	478	410	512	382	478		
S5L1S-D4	412	515	460	575	412	515		
S5L1S-E4	509	636	512	640	509	636		
S5L1S-F4	568	710	568	710	568	710		

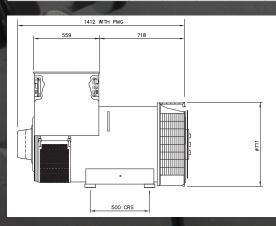
Standby 163/27	311							
Winding Number								
Volts	380		400		415			
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1S-C4	400	500	416	520	400	500		
S5L1S-D4	440	550	472	590	440	550		
S5L1S-E4	528	660	532	665	528	660		
S5L1S-F4	590	738	590	738	590	738		

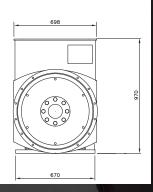
60Hz

Class H 125/40								
Winding Number		311						
Volts	4	416		440		30		
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1S-C4	420	525	440	550	475	594		
S5L1S-D4	460	575	475	594	515	644		
S5L1S-E4	545	681	570	713	600	750		
S5L1S-F4	590	738	620	775	660	825		

			DESCRIPTION OF THE PERSON OF T				
Standby 150/40							
Winding Number	311						
Volts	416		440		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1S-C4	440	550	465	581	500	625	
S5L1S-D4	470	588	500	625	540	675	
S5L1S-E4	575	719	600	750	640	800	
S5L1S-F4	625	781	655	819	700	875	

2000		10000					
Standby 163/27	\						
Winding Number	311						
Volts	416		440		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1S-C4	455	569	480	600	515	644	
S5L1S-D4	485	606	515	644	555	694	
S5L1S-E4	590	738	615	769	655	819	
S5L1S-F4	645	806	675	844	725	906	





Specification

MODEL	S5-Special
Ratings at 50Hz (kVA) Class H	455-670
Ratings at 60Hz (kVA) Class H	525-825
Specifications	
Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage Sensing	2 Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 1
Terminals	12
Material Insulation Class	Н
Excitation System	AS440/Self-Exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Double
SAE Adaptors	0.5, 0, 00
Excitation System	PMG
Ingress Protection	IP23 Air Filters
Output Configurations	3 Phase Reconnectable
Voltage sensing	3 Phase sensing
Temperature Monitoring	Winding RTDs
Temperature Monitoring	Thermistors
Environmental Protection	Anti-Condensation Heater
Adaptor Feet	X
Flexible Feet	Х
Prime Movers	
Diesel Engine	1
Gas Engine	/

Accessories

Factory Build Options
Anti-Condensation Heater (with Terminal Box)
Quadrature Droop kit
Bearing RTD (Each Bearing)
Air Inlet Filter
Drip Proof Louvres
Remote Voltage Trimmer
Radio frequency interference (RFI) Suppressor Kit
Excitation Loss Module
Diode Failure Detector
CSA Approval

Available With	MX321	MX341	AS440
Current Sensing Kit	1	1	1
Controlled Short Circuit	1	X	X
Manual Voltage Regulator	1	1	X
Frequency Detection Module	1	1	X
Power Factor Controller - PFC3	1	1	1
Remote Control Interface	1	1	1
Excitation Circuit Breaker	1	1	1
Dual AVR	1	1	Х

Voltage Regulator Options

MX341 with PMG

MX321 AVR with PMG

UL AS440 AVR

UL MX341 with PMG

No AVR with or without PMG

*GA Drawings are indicative of S5-F dimensions

**Please contact our applications department for additional voltages that are available

***Ratings are preliminary and are subject to change throughout 2018



S5 Marine Ratings

50Hz

Class B (70°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number	311						
Volts	380		400		415		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1M-C4	256	320	260	325	264	330	
S5L1M-D4	284	355	292	365	300	375	
S5L1M-E4	332	415	344	430	352	440	
S5L1M-F4	352	440	368	460	380	475	

Class F (90°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number		311					
Volts	380		400		415		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1M-C4	292	365	296	370	304	380	
S5L1M-D4	324	405	332	415	344	430	
S5L1M-E4	380	475	392	490	404	505	
S5L1M-F4	404	505	420	525	432	540	

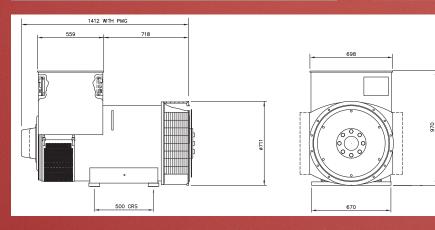
Class H (110°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number		311					
Volts	380		400		415		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1M-C4	312	390	312	390	312	390	
S5L1M-D4	348	435	348	435	348	435	
S5L1M-E4	424	530	424	530	424	530	
S5L1M-F4	452	565	468	585	480	600	

60Hz

Class B (70°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number		311					
Volts	440		460		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1M-C4	316	395	332	415	336	420	
S5L1M-D4	340	425	356	445	372	465	
S5L1M-E4	412	515	416	520	424	530	
S5L1M-F4	452	565	463	578	466	582	

Class F (90°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number	311						
Volts	440		460		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S5L1M-C4	360	450	380	475	385	481	
S5L1M-D4	390	488	405	506	425	531	
S5L1M-E4	470	588	475	594	485	606	
S5L1M-F4	515	644	525	656	530	663	

Class H (110°C) Temperature Rise, Continuous, 50°C Ambient								
Winding Number	311							
Volts	440		460		480			
Model	kW	kVA	kW	kVA	kW	kVA		
S5L1M-C4	388	485	412	515	416	520		
S5L1M-D4	416	520	436	545	456	570		
S5L1M-E4	500	625	510	638	520	650		
S5L1M-F4	555	694	565	706	580	725		



Specification

A land to the			
MODEL	S5-Marine		
Ratings at 50Hz (kVA) Class H	390-600		
Ratings at 60Hz (kVA) Class H	485-725		
Specifications			
Voltage Range	380-690		
Poles	4		
Technology	Wire Wound		
AVR	Analogue		
Voltage Sensing	2 Phase		
Bearing Arrangement	Single		
SAE Adaptors	SAE 1		
Terminals	12		
Material Insulation Class	Н		
Excitation System	MX341/PMG		
Ingress Protection	IP23		
Connection with other machines	Paralleling capability		
Optional Features			
Bearing Arrangement	Double		
SAE Adaptors	0.5, 0, 00		
Excitation System	PMG		
Ingress Protection	IP23 Air Filters		
Output Configurations	3 Phase Reconnectable		
Voltage sensing	3 Phase sensing		
Temperature Monitoring	Winding RTDs		
Temperature Monitoring	Thermistors		
Environmental Protection	Anti-Condensation Heater		
Adaptor Feet	Х		
Flexible Feet	Х		
Prime Movers			
Diesel Engine	1		
Gas Engine	1		

Accessories

	Factory Build Options
	Anti-Condensation Heater (with Terminal Box)
ă	Quadrature Droop kit
	Bearing RTD (Each Bearing)
Unit I	Air Inlet Filter
	Remote Voltage Trimmer
	Radio frequency interference (RFI) Suppressor Kit
	Excitation Loss Module
	Diode Failure Detector
	CSA Approval

Available With	MX321	MX341
Current Sensing Kit	✓	1
Controlled Short Circuit	✓	X
Manual Voltage Regulator	✓	✓
Frequency Detection Module	✓	✓
Power Factor Controller - PFC3	✓	1
Remote Control Interface	✓	✓
Excitation Circuit Breaker	✓	✓
Dual AVR	✓	1

Voltage Regulator Options

MX321 AVR with PMG UL MX341 with PMG No AVR with PMG



^{*}GA Drawings are indicative of S5-F dimensions

^{**}Please contact our applications department for additional voltages that are available ***Ratings are preliminary and are subject to change throughout 2018

Applications



Case Study Purpose:
Prime Power

Location:
Cortina d'Ampezzo, Italy

Specified: 72 x STAMFORD® range of alternators

Visa SpA, was chosen to supply power for the Alpine World Ski Championships in Cortina d'Ampezzo, February 2021, a popular racing event set at the foot of the Tofane Mountains, Italy. As the chosen technical sponsor for the event, Visa specified **STAMFORD**® alternators for use in the gensets for the 8MW output of power required.

A fleet of 72 gensets, which had been specially developed with **STAMFORD®** S-Range alternators contributed an overall output of 12,690 kVA power supply. Each set was distributed throughout Cortina in strategic points of the territory to ensure maximum safety energy flow in support of the electricity grid during event.

"We use **STAMFORD**® in our products because of the exceptional quality and reliability needed in market challenging sectors"



End-to-end Support

From pre-sales applications support all the way through to our extensive worldwide channel of customer service and authorised Parts and Service dealers servicing your **STAMFORD® I AvK®** alternators, we're there for you.

Selecting the right alternator for the right application? We understand the performance requirements that each application and operating environment demands.

Always Advancing—We also offer a comprehensive suite of Service Training courses designed to introduce, refresh, develop or expand your existing knowledge of STAMFORD and AvK genuine products.

We are here to support your future decarbonisation goals, through our end-to-end expertise in versatile solutions. Backed by the reassurance of our world-renowned brands recognised for reliability and complete peace of mind, we are with you on your journey towards sustainability.



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