OUR DIFFERENCE? THE DETAIL.



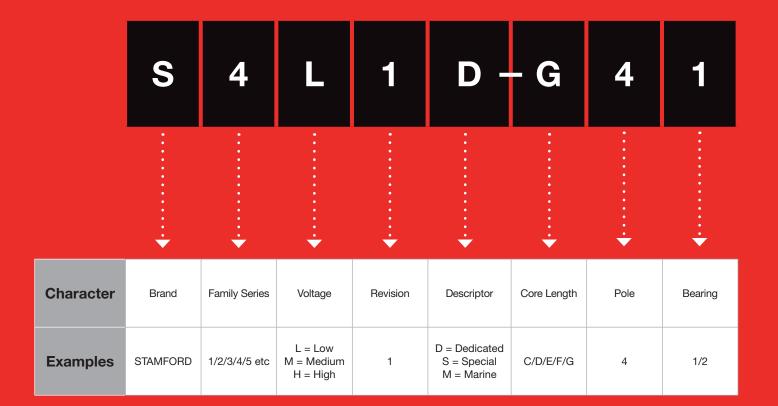




STAMFORD° S4

Fitted with CoreCooling™ technology

The S4 Nomenclature



STAMFORD° S4 Dedicated





Product evolution through technological revolution.

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

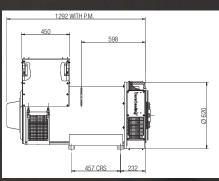
S4 Dedicated Ratings

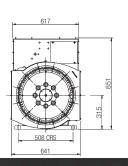
50Hz

Class H 125/40						
Winding Number	311					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1D-C4	200	250	208	260	208	260
S4L1D-D4	240	300	248	310	248	310
S4L1D-E4	280	350	288	360	288	360
S4L1D-F4	320	400	332	415	332	415
S4L1D-G4	344	430	360	450	360	450

Standby 150/40							
Winding Number	311						
Volts	380		400		4	15	
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1D-C4	216	270	224	280	224	280	
S4L1D-D4	256	320	264	330	264	330	
S4L1D-E4	296	370	308	385	308	385	
S4L1D-F4	332	415	356	445	356	445	
S4L1D-G4	364	455	384	480	384	480	

Standby 163/27						
Winding Number	311					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1D-C4	220	275	228	285	228	285
S4L1D-D4	264	330	272	340	272	340
S4L1D-E4	304	380	332	415	320	400
S4L1D-F4	340	425	372	465	364	455
S4L1D-G4	380	475	400	500	400	500





60Hz

Class H 125/40		-					
Winding Number	311						
Volts	416		440		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1D-C4	230	288	248	310	260	325	
S4L1D-D4	275	344	296	370	312	390	
S4L1D-E4	320	400	348	435	364	455	
S4L1D-F4	364	455	400	500	416	520	
S4L1D-G4	400	500	428	535	448	560	

Standby 150/40								
Winding Number	311							
Volts	416		440		48	30		
Model	kW	kVA	kW	kVA	kW	kVA		
S4L1D-C4	240	300	264	330	280	350		
S4L1D-D4	292	365	320	400	332	415		
S4L1D-E4	336	420	368	460	380	475		
S4L1D-F4	388	485	428	535	444	555		
S4L1D-G4	428	535	460	575	480	600		

Standby 163/27							
Winding Number	311						
Volts	416		440		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1D-C4	248	310	276	345	284	355	
S4L1D-D4	300	375	328	410	344	430	
S4L1D-E4	348	435	376	470	392	490	
S4L1D-F4	400	500	440	550	460	575	
S4L1D-G4	452	565	480	600	500	625	

Specification

S4-Dedicated
250-450
288-560
380-480
4
Wire Wound
Analogue
2 Phase
Single
SAE 1
12
Н
Self Exciting
IP23
Paralleling capability
Paralleling capability
Paralleling capability -
Paralleling capability - 0.5
-
- 0.5
- 0.5 PMG
0.5 PMG IP23 Air Filters
0.5 PMG IP23 Air Filters 1 Phase Reconnectable
- 0.5 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing
- 0.5 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs
- 0.5 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs Thermistors Anti-Condensation
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Accessories

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

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

Voltage Regulator Options	PMG
AS440 AVR	X
MX341	1
MX321™ AVR	1
UL AS440	×
UL MX341	1
No AVR	1



S4 Special Ratings

50Hz

Class H 125/40						
Winding Number	311					
Volts	38	30	400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1S-C4	200	250	200	250	200	250
S4L1S-D4	240	300	240	300	240	300
S4L1S-E4	280	350	280	350	280	350
S4L1S-F4	320	400	320	400	320	400

Standby 150/40							
Winding Number	311						
Volts	380			400		415	
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1S-C4	216	270	216	270	216	270	
S4L1S-D4	256	320	256	320	256	320	
S4L1S-E4	296	370	296	370	296	370	
S4L1S-F4	332	415	344	430	344	430	

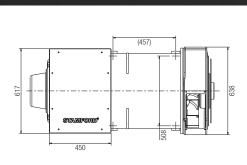
Standby 163/27						
Winding Number	311					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1S-C4	220	275	220	275	220	275
S4L1S-D4	264	330	264	330	264	330
S4L1S-E4	304	380	320	400	304	380
S4L1S-F4	340	425	360	450	352	440

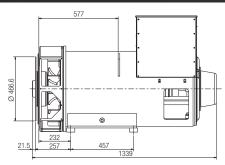
60Hz

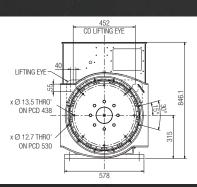
Class H 125/40								
Winding Number		311						
Volts	4	16	440		480			
Model	kW	kVA	kW	kVA	kW	kVA		
S4L1S-C4	230	288	240	300	252	315		
S4L1S-D4	275	344	288	360	300	375		
S4L1S-E4	320	400	336	420	352	440		
S4L1S-F4	364	455	384	480	400	500		

Standby 150/40							
Winding Number	311						
Volts	4-	16	440		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1S-C4	240	300	256	320	268	335	
S4L1S-D4	292	365	308	385	320	400	
S4L1S-E4	336	420	356	445	368	460	
S4L1S-F4	388	485	412	515	428	535	

Standby 163/27		- 11		27, 50		
Winding Number	311					
Volts	416		440		480	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1S-C4	248	310	264	330	276	345
S4L1S-D4	300	375	316	395	332	415
S4L1S-E4	348	435	364	455	380	475
S4L1S-F4	400	500	424	530	440	550







Specification

MODEL	S4-Special
Ratings at 50Hz (kVA) Class H	250-400
Ratings at 60Hz (kVA) Class H	288-500
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	Self Exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Double
SAE Adaptors	0.5, 0, 2, 3
Excitation System	PMG
Ingress Protection	IP23 Air Filters
Output Configurations	1 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	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	✓
Controlled Short Circuit	1	Х	X
Manual Voltage Regulator	1	✓	X
Frequency Detection Module	1	1	X
Power Factor Controller - PFC3	/	✓	✓
Remote Control Interface	1	✓	✓
Excitation Circuit Breaker	1	✓	✓
Dual AVR	/	1	Х

Voltage Regulator Options	PMG					
AS440 AVR	X					
MX341	1					
MX321™ AVR	1					
UL AS440	Х					
UL MX341	1					
No AVR	×					
No AVR	1					



S4 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	
S4L1M-C4	148	185	148	185	148	185	
S4L1M-D4	160	200	160	200	160	200	
S4L1M-E4	192	240	192	240	192	240	
S4L1M-F4	220	275	220	275	220	275	

Class F (90°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number	311						
Volts	380		400		415		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1M-C4	168	210	168	210	168	210	
S4L1M-D4	184	230	184	230	184	230	
S4L1M-E4	220	275	220	275	220	275	
S4L1M-F4	248	310	248	310	248	310	

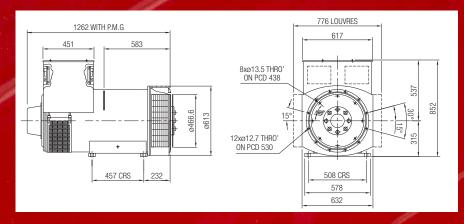
Class H (110°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number	311						
Volts	380 40			00	415		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1M-C4	172	215	172	215	172	215	
S4L1M-D4	192	240	192	240	192	240	
S4L1M-E4	236	295	236	295	236	295	
S4L1M-F4	272	340	272	340	272	340	

60Hz

Class B (70°C) Temperature Rise, Continuous, 50°C Ambient							
Winding Number	311						
Volts	44	40	460		480		
Model	kW	kVA	kW	kVA	kW	kVA	
S4L1M-C4	172	215	176	220	180	225	
S4L1M-D4	188	235	200	250	208	260	
S4L1M-E4	228	285	236	295	244	305	
S4L1M-F4	264	330	268	335	276	345	

Class F (90°C) Temperature Rise, Continuous, 50°C Ambient						
Winding Number	311					
Volts	440		460		480	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1M-C4	196	245	200	250	204	255
S4L1M-D4	216	270	224	280	236	295
S4L1M-E4	260	325	272	340	276	345
S4L1M-F4	300	375	304	380	316	395

Class H (110°C) Temperature Rise, Continuous, 50°C Ambient						
Winding Number	311					
Volts	440		460		480	
Model	kW	kVA	kW	kVA	kW	kVA
S4L1M-C4	208	260	212	265	216	270
S4L1M-D4	244	305	256	320	264	330
S4L1M-E4	280	350	292	365	296	370
S4L1M-F4	324	405	332	415	340	425



Specification

	N. T. S.	11 11
	MODEL	S4-Marine
ľ	Ratings at 50Hz (kVA) Class H	200-340
	Ratings at 60Hz (kVA) Class H	235-440
_	Specifications	
ľ	Voltage Range	380-690
	Poles	4
	Technology	Wire Wound
	AVR	Analogue
(Voltage Sensing	2 Phase
	Bearing Arrangement	Single
	SAE Adaptors	SAE 1
1	Terminals	12
	Material Insulation Class	Н
	Excitation System	Self Exciting
	Ingress Protection	IP23
	Connection with other machines	Davellalina sanahilitu
	Connection with other machines	Paralleling capability
ı	Optional Features	Paralleling capability
		Double
	Optional Features	
	Optional Features Bearing Arrangement	Double
	Optional Features Bearing Arrangement SAE Adaptors	Double 0.5, 0, 2, 3
	Optional Features Bearing Arrangement SAE Adaptors Excitation System	Double 0.5, 0, 2, 3 PMG
	Optional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection	Double 0.5, 0, 2, 3 PMG IP23 Air Filters
	Optional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable
	Optional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing
	Optional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing Temperature Monitoring	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs
	Detional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing Temperature Monitoring Temperature Monitoring	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs Thermistors Anti-Condensation
	Detional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing Temperature Monitoring Temperature Monitoring Environmental Protection	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs Thermistors Anti-Condensation Heater
	Detional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing Temperature Monitoring Temperature Monitoring Environmental Protection Adaptor Feet	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs Thermistors Anti-Condensation Heater
	Optional Features Bearing Arrangement SAE Adaptors Excitation System Ingress Protection Output Configurations Voltage sensing Temperature Monitoring Temperature Monitoring Environmental Protection Adaptor Feet Flexible Feet	Double 0.5, 0, 2, 3 PMG IP23 Air Filters 1 Phase Reconnectable 3 Phase sensing Winding RTDs Thermistors Anti-Condensation Heater

Accessories

	Factory Build Options
Š	Anti-Condensation Heater (with Terminal Box)
١	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
١	CSA Approval
ø	

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

Voltage Regulator Options	PMG
MX341	1
MX321™ AVR	1
UL MX341	1
No AVR	1





PRODUCT HERITAGE



1973
World's
First alternator
to utilise a PMG
for AVR excitation

1950
World's
First regulating alternator produced



1966 C Range



1966

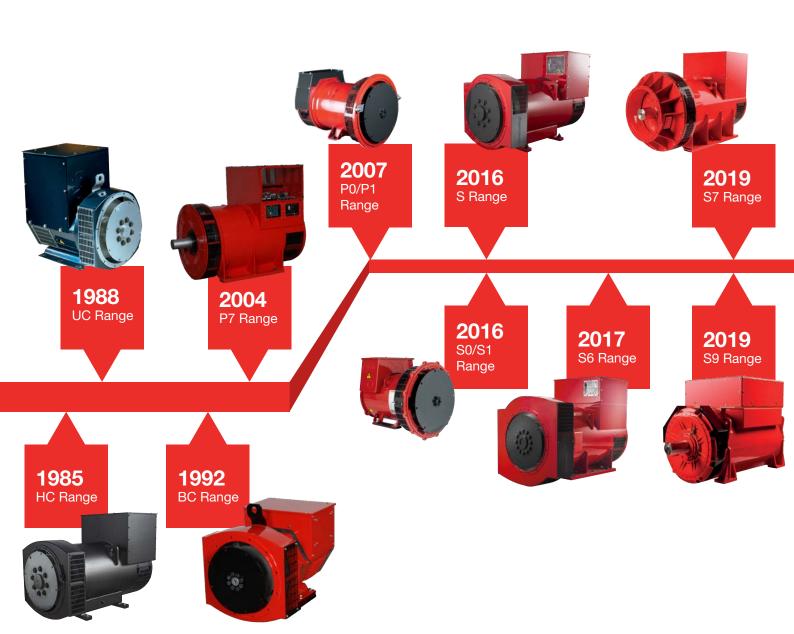
World's First volume produced brushless alternator

1973 AC Range

1958

World's First rotating field alternator produced





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