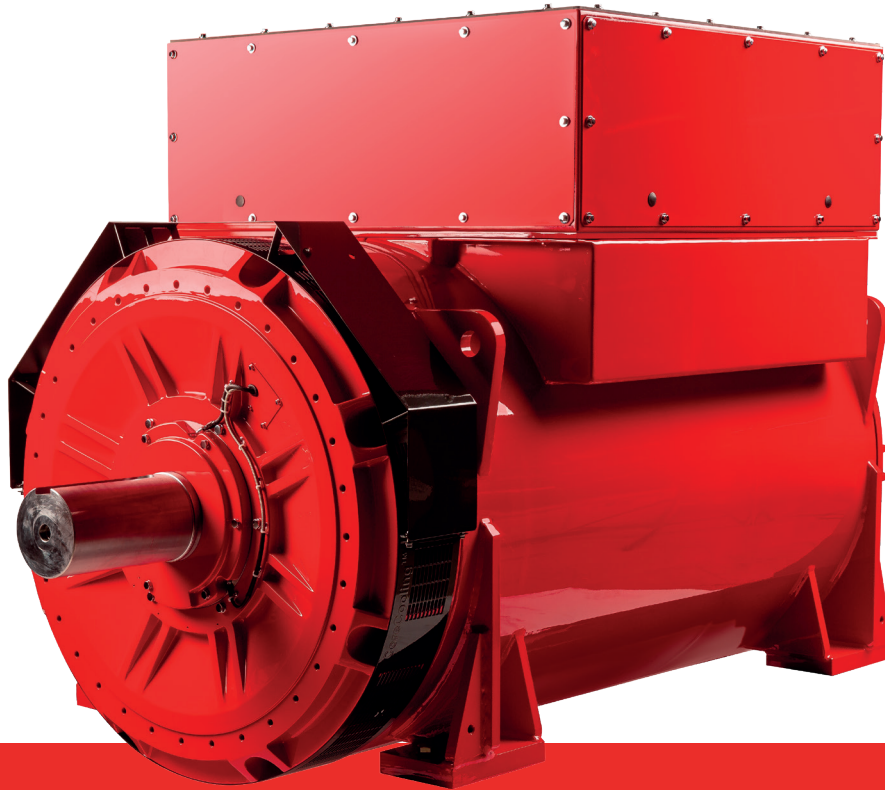


OUR DIFFERENCE? THE DETAIL.

NOW WITH
3 YEARS
WARRANTY



STAMFORD® S9

Fitted with
CoreCooling™
technology

The S9 Nomenclature



Character	S	9	H	1	D - E	4	1	
Brand	STAMFORD	Family Series	Voltage	Revision	Descriptor	Core Length	Pole	Bearing
Examples	STAMFORD	1/2/3/4/5 etc	L = Low M = Medium H = High	1	D = Dedicated	B/C/D/E/F/ G/H	4	1/2

STAMFORD S9 - True Class H



STAMFORD S9 Class H insulation technology delivers high resistance to mechanical and thermal stresses through the use of the latest insulation system technologies.



Developed based on over 30 years of high voltage **STAMFORD®|Avk®** product knowledge, and in partnership with leading industry supplier, VonRoll.



Extensive validation combined with the renowned S-Range **3 Year Warranty** assures confidence in this true Class H insulation system.

The benefits of True Class H insulation system:

- ✓ Enhanced power density - smaller in weight and length
- ✓ Increased insulation lifetime
- ✓ Proven robust and durable design
- ✓ Validated for continuous operation at Class H insulation temperatures

The New **STAMFORD**® S9 Dedicated



True Class H technology for enhanced power density

Greater serviceability access

Extended insulation lifetime

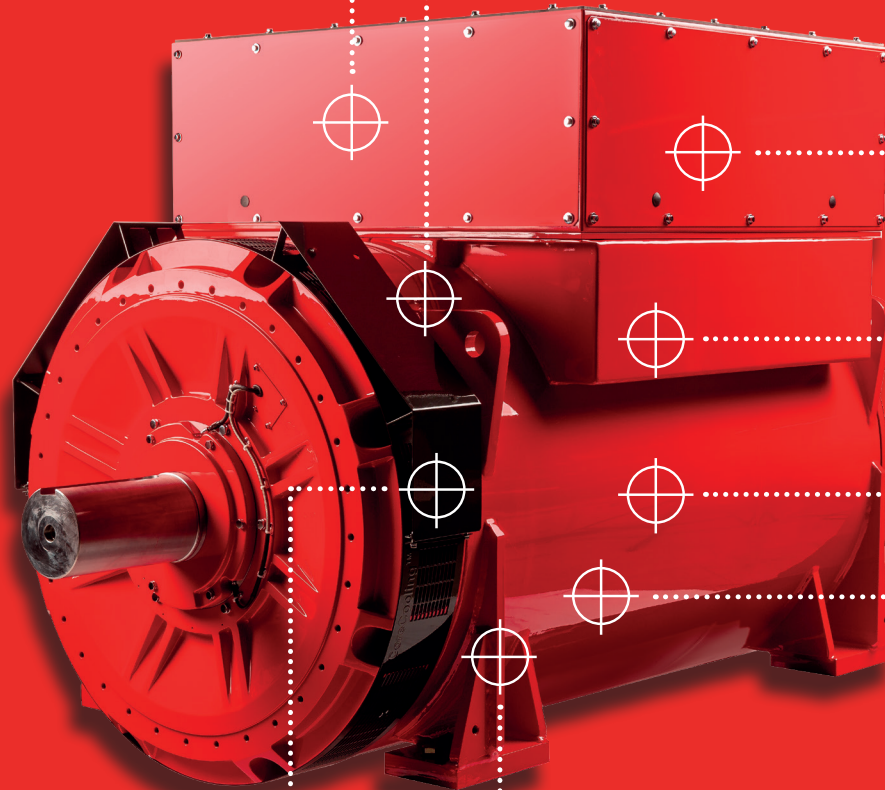
Optimised efficiency

Optimised power density

Increased ratings up to 5000kVA

High efficiency airflow

Higher level of integration flexibility



Product evolution through technological revolution.

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

S9 Dedicated Ratings

50Hz

Class H 125/140				
Winding Number	83*			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1840	2300	1840	2300
S9H1D-C4	2012	2515	2012	2515
S9H1D-D4	2272	2840	2272	2840
S9H1D-E4	2608	3260	2608	3260
S9H1D-F4	2980	3725	2980	3725
S9H1D-G4	3248	4060	3248	4060
S9H1D-H4	3600	4500	3600	4500

Standby 150/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1969	2461	1969	2461
S9H1D-C4	2153	2691	2153	2691
S9H1D-D4	2431	3039	2431	3039
S9H1D-E4	2790	3488	2790	3488
S9H1D-F4	3189	3986	3189	3986
S9H1D-G4	3475	4344	3475	4344
S9H1D-H4	3852	4815	3852	4815

Standby 163/27				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	2024	2530	2024	2530
S9H1D-C4	2214	2767	2214	2767
S9H1D-D4	2499	3124	2499	3124
S9H1D-E4	2869	3586	2869	3586
S9H1D-F4	3278	4098	3278	4098
S9H1D-G4	3573	4466	3573	4466
S9H1D-H4	3960	4950	3960	4950

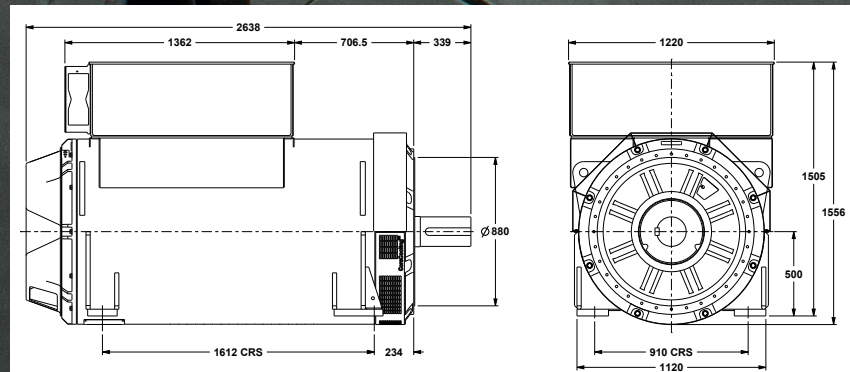
60Hz

Class H 125/140						
Winding Number	91					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	1920	2400	2028	2535	2120	2650
S9H1D-C4	2168	2710	2296	2870	2400	3000
S9H1D-D4	2384	2980	2524	3155	2640	3300
S9H1D-E4	2692	3365	2848	3560	2980	3725
S9H1D-F4	3048	3810	3224	4030	3372	4215
S9H1D-G4	3324	4155	3520	4400	3680	4600
S9H1D-H4	3612	4515	3824	4780	4000	5000

Standby 150/40						
Winding Number	91					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	2054	2568	2170	2712	2269	2836
S9H1D-C4	2320	2900	2457	3071	2568	3210
S9H1D-D4	2551	3189	2701	3376	2825	3531
S9H1D-E4	2881	3601	3047	3809	3189	3986
S9H1D-F4	3262	4077	3450	4312	3608	4510
S9H1D-G4	3557	4446	3766	4708	3938	4922
S9H1D-H4	3865	4831	4092	5115	4280	5350

Standby 163/27						
Winding Number	91					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	2112	2640	2231	2789	2332	2915
S9H1D-C4	2385	2981	2526	3157	2640	3300
S9H1D-D4	2622	3278	2777	3471	2904	3630
S9H1D-E4	2962	3702	3133	3916	3278	4097.5
S9H1D-F4	3353	4191	3546	4433	3709	4636.5
S9H1D-G4	3657	4571	3872	4840	4048	5060
S9H1D-H4	3974	4967	4206	5258	4400	5500

*Other windings are available



Specification

MODEL	S9-Dedicated
Ratings at 50Hz (kVA) Class H	2150-4500
Ratings at 60Hz (kVA) Class H	2400-5000
Specifications	
Voltage Range	3300-13800
Poles	4
Technology	Bar Wound
Application	Prime Power/Standby
AVR	DM110
Voltage Sensing	2 Phase
Bearing Arrangement	Single/Double
SAE Adaptors	SAE 0 / 00
Centre Height	500
Terminals	6
Material Insulation Class	H
Excitation System	PMG
Ingress Protection	IP23
	IP54 Terminal Box
Connection with other machines	Paralleling capability
Bearings re-grease interval	Up to 3000 hours
Temperature Monitoring	Winding RTDs
Environmental Protection	Anti-Condensation Heater
Optional Features	
Voltage Sensing	3 Phase sensing
Application	Grid
Centre Height	265, 349, 450
Current Transformers	1, 2, 3 per phase
Earth Fault Protection	Current Transformer
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

Accessories

Factory Build Options
Anti-Condensation Heater
Quadrature Droop Kit
Bearing RTD (Each Bearing)
Air Inlet Filter
Excitation Loss Module
Diode Failure Detector
Air Inlet Cover

Available With	DM110	DECS150	Unitrol
Current Sensing Kit	✓	✓	✓
Controlled Short Circuit	✓	✓	✓
Manual Voltage Regulator	✓	✓	✓
Frequency Detection Module	✓	✓	✓
Power Factor Controller	✓	✓	✓
Remote Control Interface	✓	✓	✓
Dual AVR	✓	✓	✓

Voltage Regulator Options	With PMG
no AVR	✓
DM110	✓
DECS100	✓
DECS 150	✓
Unitrol 1010	✓
Deif DVC310	✓
DVR2	✓

*GA Drawings are indicative of S9D-G/H core dimensions

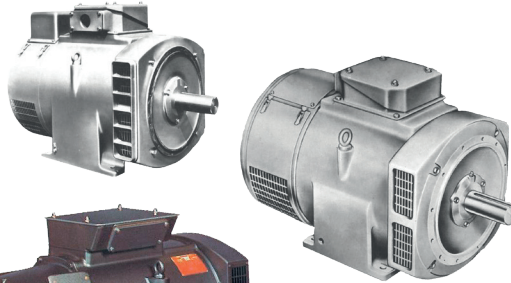
**Please contact our applications department for additional voltages that are available

***Ratings are preliminary and are subject to change

**NOW WITH
3 YEARS
WARRANTY**



PRODUCT HERITAGE



1973

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

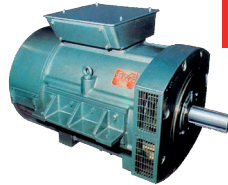


1950

World's
First regulating
alternator
produced



1966
C Range



1966

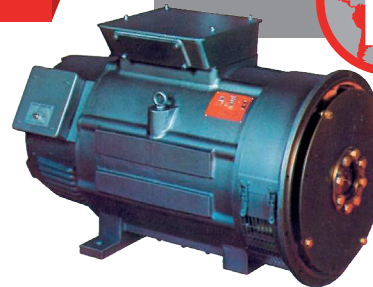
World's First
volume produced
brushless
alternator

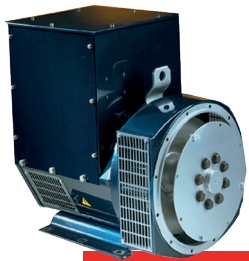


1973
AC Range

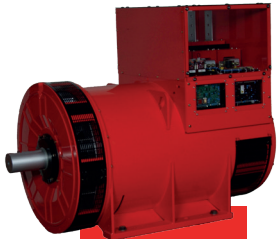
1958

World's First
rotating field
alternator
produced





1988
UC Range



2004
P7 Range



2007
P0/P1
Range



2016
S Range



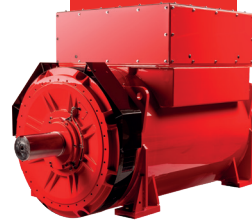
2019
S7 Range



2016
S0/S1
Range



2017
S6 Range



2019
S9 Range



1985
HC Range



1992
BC Range

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Part No. PB_S9_EN/HP_Rev.1



**Generator
Technologies**