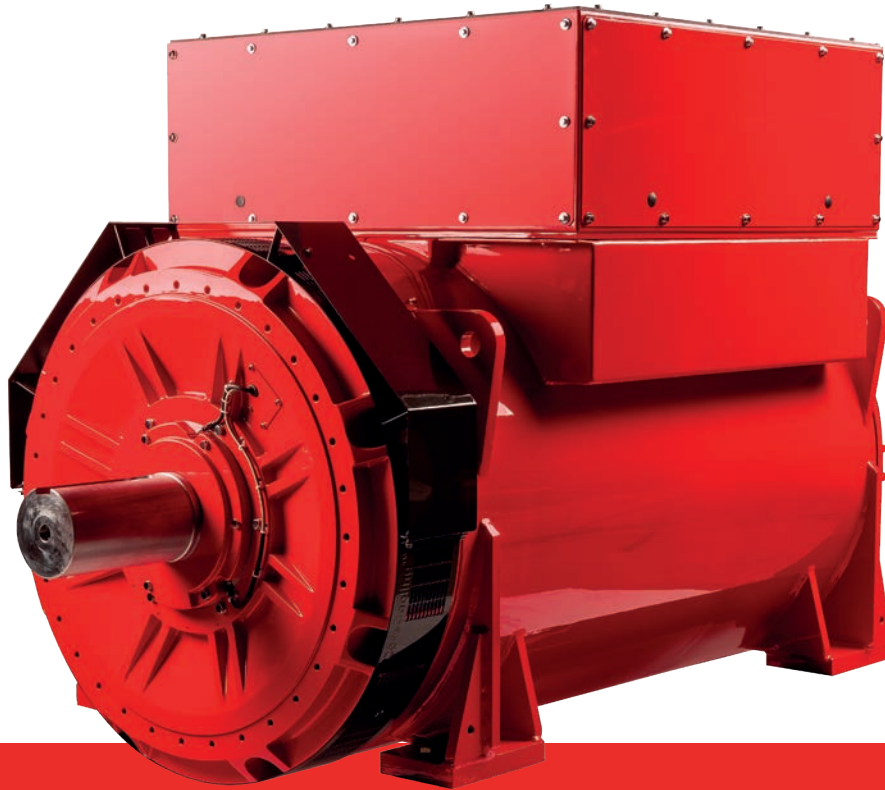


OUR DIFFERENCE? THE DETAIL.

**3 YEAR
WARRANTY**

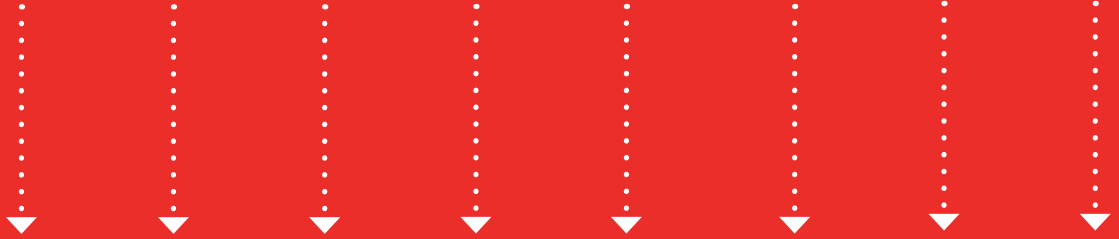


STAMFORD® S9

Fitted with
CoreCooling™
technology

The S9 Nomenclature

S 9 H 1 D - E 4 1



Character	Brand	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 Dedicated



True Class H technology for enhanced power density

Greater serviceability access

Extended insulation lifetime

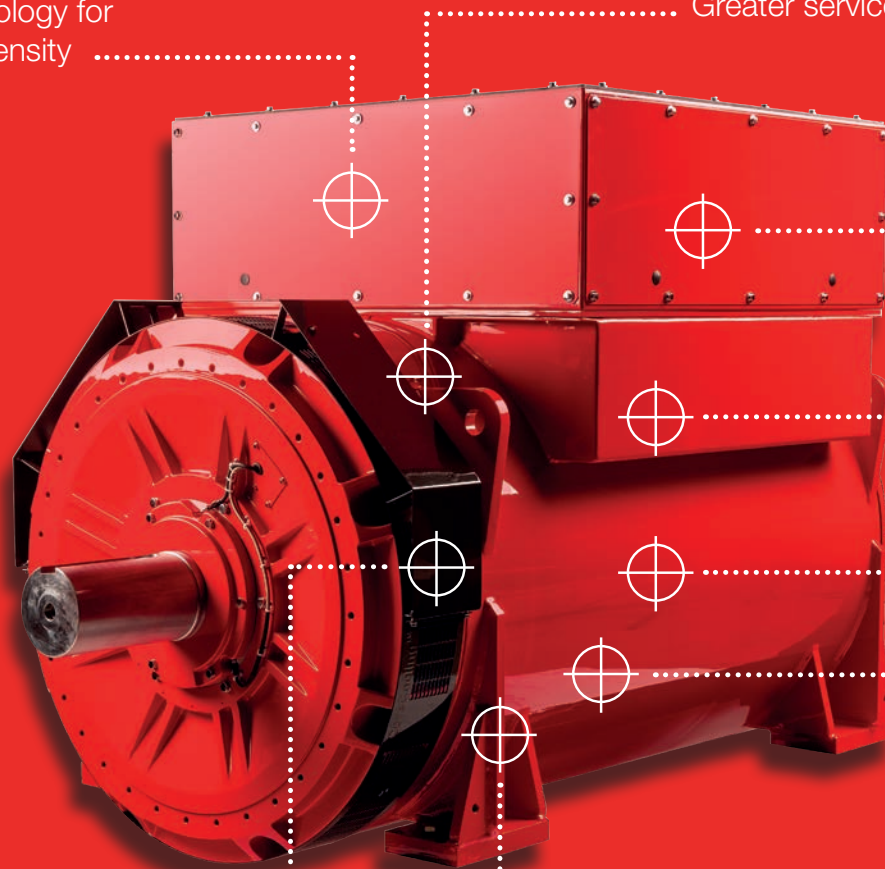
Optimised efficiency

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 5/6th Pitch

50Hz

Class F 105/40				
Winding Number	83*			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1692	2116	1692	2116
S9H1D-C4	1851	2314	1851	2314
S9H1D-D4	2090	2613	2090	2613
S9H1D-E4	2399	2999	2399	2999
S9H1D-F4	2741	3427	2741	3427
S9H1D-G4	2988	3735	2988	3735
S9H1D-H4	3312	4140	3312	4140

Class H 125/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1840	2250	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

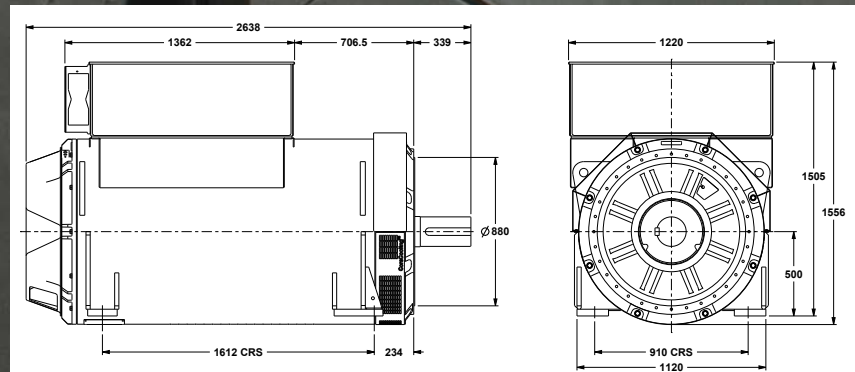
60Hz

Class F 105/40						
Winding Number	91					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	1766	2208	1865	2332	1950	2438
S9H1D-C4	1994	2493	2112	2640	2208	2760
S9H1D-D4	2193	2742	2322	2903	2428	3036
S9H1D-E4	2476	3096	2620	3275	2741	3427
S9H1D-F4	2804	3505	2966	3708	3102	3878
S9H1D-G4	3058	3823	3238	4048	3385	4232
S9H1D-H4	3323	4154	3518	4398	3680	4600

Class H 125/40						
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

*Other windings are available



S9 Dedicated Ratings 2/3rd Pitch

50Hz

Class F 105/40				
Winding Number	983*			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1466	1833	1466	1833
S9H1D-C4	1722	2153	1722	2153
S9H1D-D4	1844	2305	1844	2305
S9H1D-E4	2082	2603	2082	2603
S9H1D-F4	2390	2988	2390	2988
S9H1D-G4	2731	3414	2731	3414
S9H1D-H4	2976	3721	2976	3721

Class H 125/40				
Winding Number	983			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1600	2000	1600	2000
S9H1D-C4	1872	2340	1872	2340
S9H1D-D4	2012	2515	2012	2515
S9H1D-E4	2272	2840	2272	2840
S9H1D-F4	2608	3260	2608	3260
S9H1D-G4	2980	3725	2980	3725
S9H1D-H4	3248	4060	3248	4060

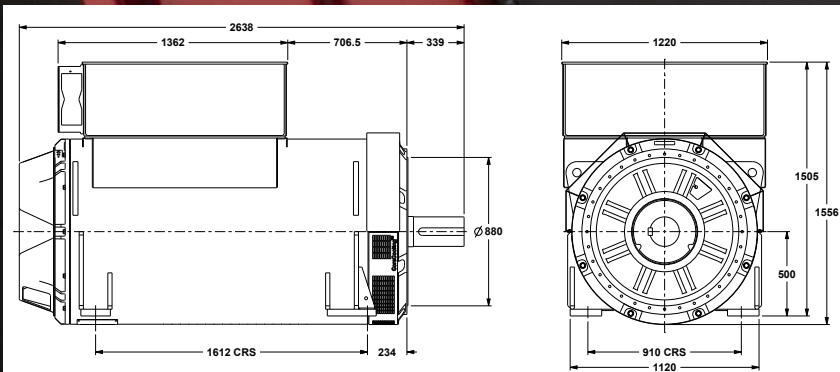
Standby 150/40				
Winding Number	983			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S9H1D-B4	1712	2140	1712	2140
S9H1D-C4	2006	2508	2006	2508
S9H1D-D4	2152	2691	2152	2691
S9H1D-E4	2431	3039	2431	3039
S9H1D-F4	2790	3488	2790	3488
S9H1D-G4	3188	3986	3188	3986
S9H1D-H4	3475	4344	3475	4344

60Hz

Class F 105/40						
Winding Number	991					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	1529	1912	1619	2024	1692	2116
S9H1D-C4	1766	2208	1865	2332	1950	2438
S9H1D-D4	1994	2493	2112	2640	2208	2760
S9H1D-E4	2186	2733	2314	2893	2419	3024
S9H1D-F4	2476	3096	2620	3275	2741	3427
S9H1D-G4	2804	3505	2965	3707	3102	3878
S9H1D-H4	3058	3823	3238	4048	3385	4232

Class H 125/40						
Winding Number	991					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	1662	2078	1760	2200	1840	2300
S9H1D-C4	1920	2400	2028	2535	2120	2650
S9H1D-D4	2168	2710	2296	2870	2400	3531
S9H1D-E4	2384	2980	2524	3155	2640	3300
S9H1D-F4	2692	3365	2848	3560	2980	3725
S9H1D-G4	3048	3810	3224	4030	3372	4215
S9H1D-H4	3324	4155	3520	4400	3680	4600

Standby 150/40						
Winding Number	991					
Volts	12470		13200		13800	
Model	kW	kVA	kW	kVA	kW	kVA
S9H1D-B4	1779	2224	1883	2354	1968	2461
S9H1D-C4	2054	2568	2169	2712	2268	2835
S9H1D-D4	2320	2900	2456	3070	2568	3210
S9H1D-E4	2551	3189	2700	3376	2824	3531
S9H1D-F4	2880	3601	3047	3809	3188	3986
S9H1D-G4	3261	4077	3449	4312	3608	4510
S9H1D-H4	3556	4446	3766	4708	3937	4922



*Other windings are available

Specification

MODEL	S9-Dedicated
Ratings at 50Hz (kVA) Class H	2000-4500
Ratings at 60Hz (kVA) Class H	2078-5000
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

**3 YEAR
WARRANTY**

STAMFORD® S9 - 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 **NEWAGE®** | **STAMFORD®** | **AvK®** product knowledge.



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

The benefits of 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

Applications



Case Study

Purpose:

Nickel Sulphide Mine

Location:

Western Region, Australia

Specified:

1 x **STAMFORD®** S9

Contract Power launched **STAMFORD®** S9 to the fleet of eight **STAMFORD®** HVS1804R1 units for the 12 MW power plant at the Savannah Nickel Sulphide Mine, located in the East Kimberly Region of Western Australia. The Savannah Mine is one of the three mining projects in this region.

“The **STAMFORD®** alternators have proven very reliable over the years in our Mining installations. With the modifications made to the new S9, they now become even more serviceable for these remote locations.”

- Contract Power Australia



Customer Support Excellence

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 **NEWAGE®** | **STAMFORD®** | **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 NEWAGE, STAMFORD and AvK genuine products.

For Application Support:

applications@cummins.com

For Customer Service:

EMEA: emea.service@cummins.com

Americas: cgta.service@cummins.com

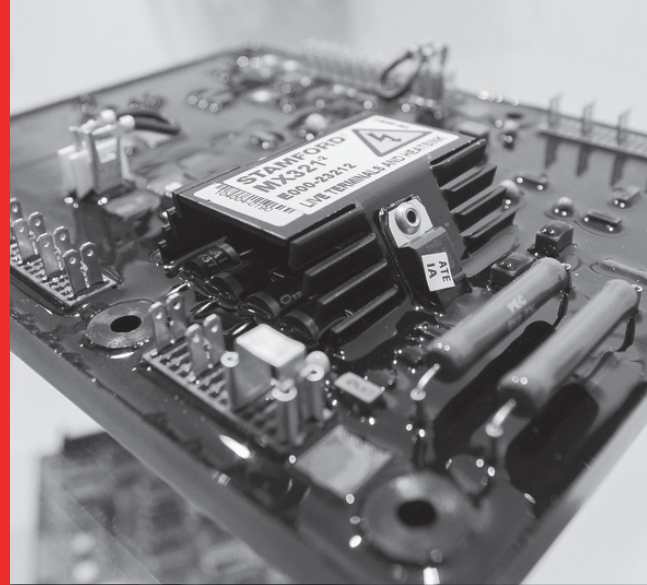
China: CGT.china.service@cummins.com

APAC: apac.service@cummins.com

India: Cgtil.Csnotify@cummins.com

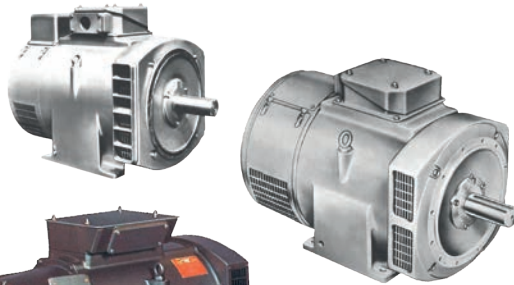
For Service Training:

stamford-avkservicetraining@cummins.com





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

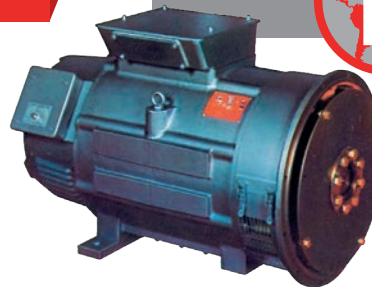
World's First
volume produced
brushless
alternator

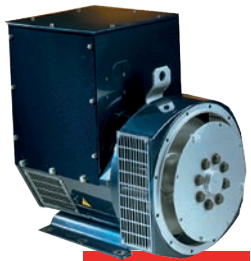


1973
AC Range

1958

World's First
rotating field
alternator
produced





1988
UC Range



2004
P7 Range



2007
P0/P1
Range



2016
S Range



2019
S7 Range



1985
HC Range



1992
BC Range



2016
S0/S1
Range



2017
S6 Range



2019
S9 Range

NEWAGE® | STAMFORD® | AvK®

Powering the world with confidence since 1904

For more information visit us at
stamford-avk.com



Copyright 2021, Cummins Generator Technologies Ltd. All rights reserved.
NEWAGE, STAMFORD and AvK are registered trademarks of Cummins
Generator Technologies Ltd.

Part No. PB_S9_EN/HP_Rev.3



**Generator
Technologies**

There for you™