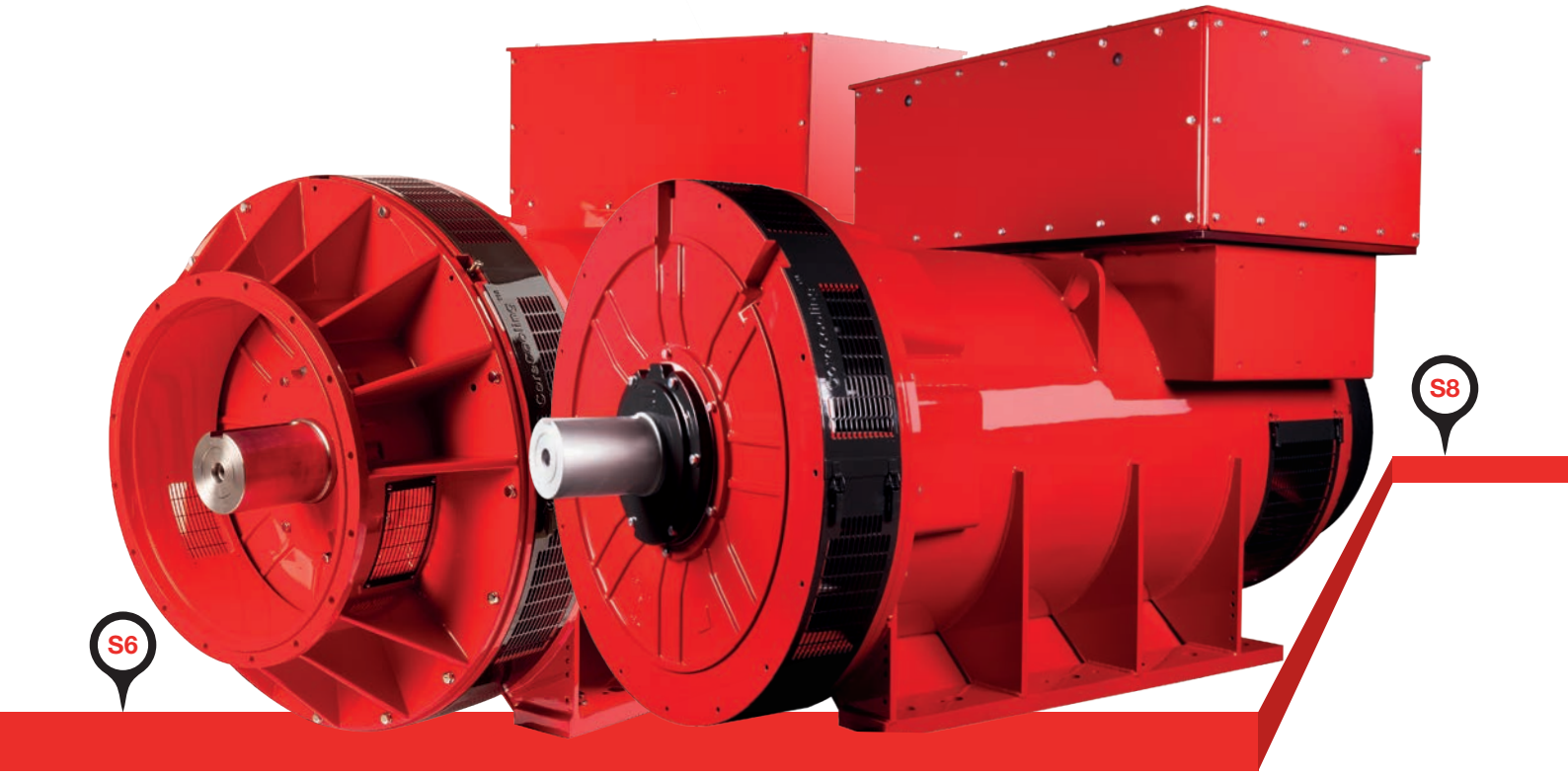
OUR DIFFERENCE?
THE DETAIL.

3 YEAR WARRANTY

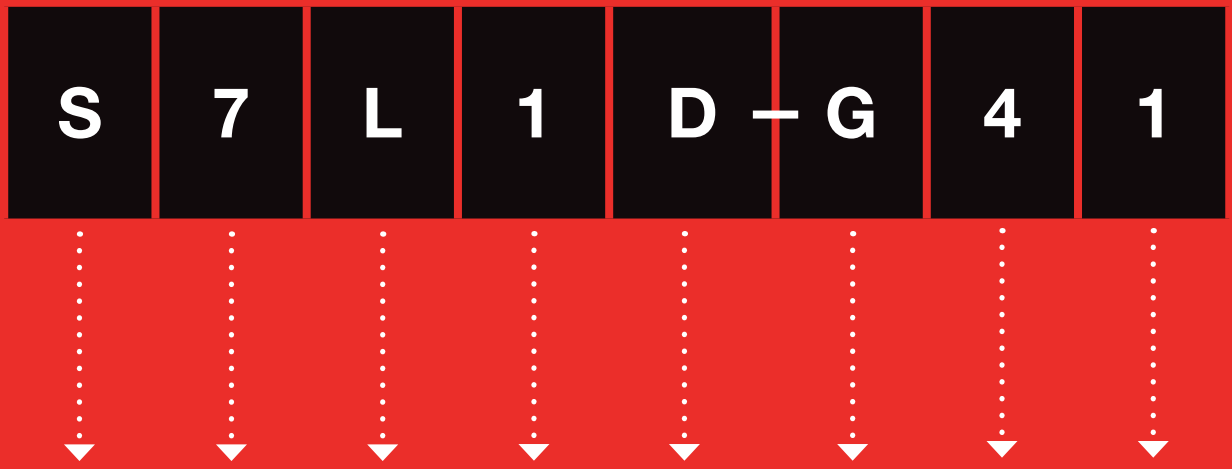


GENUINE **STAMFORD** DESIGN

STAMFORD® S7

Fitted with **CoreCooling™** technology

The S7 Nomenclature

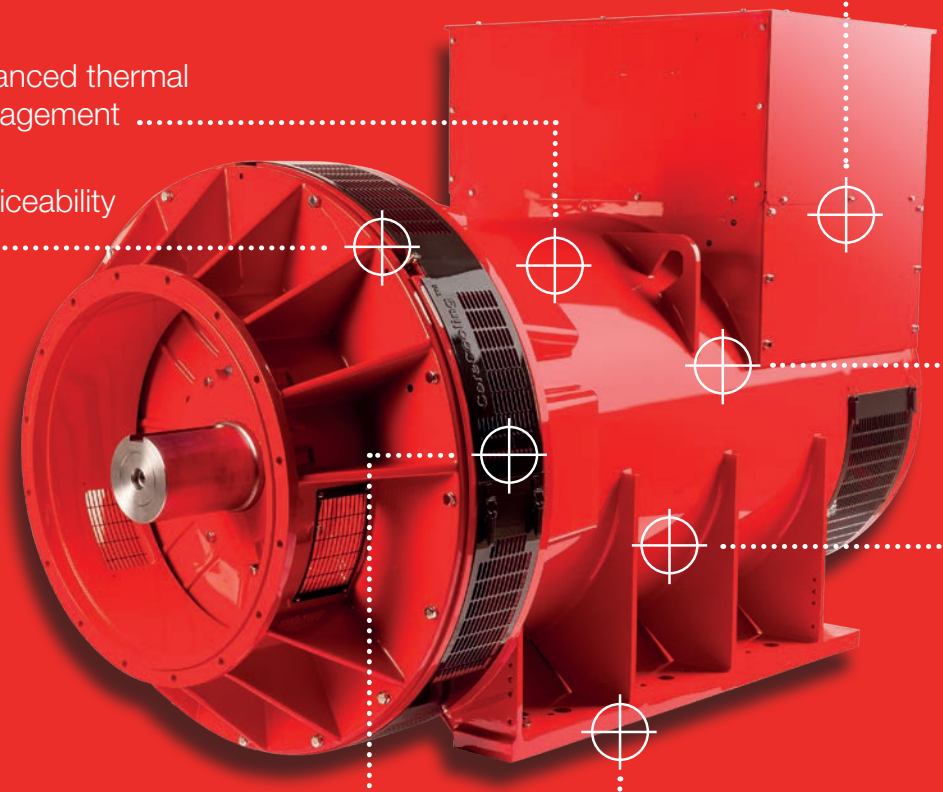


Character	Brand	Family Series	Voltage	Revision	Descriptor	Core Length	Pole	Bearing
Examples	STAMFORD	1/2/3/4/5 etc	L = Low M = Medium H = High	1	D = Dedicated	C/D/E/F/G/ H/J	4/6	1/2

STAMFORD® S7

Low Voltage Dedicated

GENUINE STAMFORD DESIGN



Product evolution through technological revolution.

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

S7 Low Voltage Dedicated Ratings

50Hz

Class H 125/40						
Winding Number	312					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	1204	**1505**	1240	**1550**	1240	**1550**
S7L1D-D4	1292	**1615**	1320	**1650**	1320	**1650**
S7L1D-E4	1360	**1700**	1400	**1750**	1400	**1750**
S7L1D-F4	1476	**1845**	1520	**1900**	1520	**1900**
S7L1D-G4	1616	**2020**	1664	**2080**	1664	**2080**
S7L1D-H4	1798	**2135**	1800	**2250**	1800	**2250**
S7L1D-J4	1940	**2425**	2000	**2500**	2000	**2500**
S7L1D-J6	1311	**1639**	1352	**1690**	1352	**1690**

Standby 150/40						
Winding Number	312					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	1256	**1570**	1292	**1615**	1292	**1615**
S7L1D-D4	1340	**1675**	1376	**1720**	1376	**1720**
S7L1D-E4	1414	**1768**	1456	**1820**	1456	**1820**
S7L1D-F4	1536	**1920**	1584	**1980**	1584	**1980**
S7L1D-G4	1684	**2105**	1736	**2170**	1736	**2170**
S7L1D-H4	1780	**2225**	1872	**2340**	1872	**2340**
S7L1D-J4	2020	**2525**	2080	**2600**	2080	**2600**
S7L1D-J6	1366	**1707**	1406	**1758**	1406	**1758**

Standby 163/27						
Winding Number	312					
Volts	380		400		415	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	1292	**1615**	1328	**1660**	1328	**1660**
S7L1D-D4	1372	**1715**	1416	**1770**	1416	**1770**
S7L1D-E4	1455	**1819**	1498	**1873**	1498	**1873**
S7L1D-F4	1580	**1975**	1628	**2035**	1628	**2035**
S7L1D-G4	1732	**2165**	1800	**2250**	1800	**2250**
S7L1D-H4	1832	**2290**	1920	**2400**	1920	**2400**
S7L1D-J4	2080	**2600**	2144	**2680**	2144	**2680**
S7L1D-J6	1406	**1758**	1450	**1812**	1450	**1812**

60Hz

Class H 125/40						
Winding Number	312					
Volts	416		440		480	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	**1365**	1706	**1455**	1819	**1515**	1894
S7L1D-D4	**1455**	1819	**1550**	1937	**1615**	2019
S7L1D-E4	**1470**	1837	**1555**	1944	**1695**	2119
S7L1D-F4	**1656**	2070	**1770**	2212	**1840**	2300
S7L1D-G4	**1880**	2350	**2000**	2500	**2080**	2600
S7L1D-H4	**1940**	2425	**2030**	2537	**2200**	2750
S7L1D-J4	**2080**	2600	**2200**	2750	**2400**	3000
S7L1D-J6	**1406**	1758	**1487**	1859	**1622**	2028

Standby 150/40						
Winding Number	312					
Volts	416		440		480	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	**1420**	1775	**1515**	1894	**1580**	1975
S7L1D-D4	**1520**	1990	**1615**	2019	**1680**	2100
S7L1D-E4	**1530**	1912	**1620**	2025	**1760**	2200
S7L1D-F4	**1725**	2156	**1840**	2300	**1920**	2400
S7L1D-G4	**1950**	2437	**2080**	2600	**2165**	2706
S7L1D-H4	**2015**	2519	**2110**	2637	**2290**	2862
S7L1D-J4	**2170**	2712	**2294**	2868	**2500**	3125
S7L1D-J6	**1466**	1833	**1551**	1939	**1690**	1762

Standby 163/27						
Winding Number	312					
Volts	416		440		480	
Model	kW	kVA	kW	kVA	kW	kVA
S7L1D-C4	**1456**	1820	**1556**	1945	**1620**	2025
S7L1D-D4	**1555**	1944	**1660**	2075	**1730**	2162
S7L1D-E4	**1575**	1969	**1665**	2081	**1810**	2263
S7L1D-F4	**1775**	2219	**1895**	2369	**1975**	2469
S7L1D-G4	**2005**	2506	**2140**	2675	**2230**	2787
S7L1D-H4	**2075**	2594	**2175**	2719	**2360**	2950
S7L1D-J4	**2230**	2787	**2350**	2938	**2560**	3200
S7L1D-J6	**1507**	1884	**1589**	1986	**1730**	2163

Specification

MODEL	S7 LV - Dedicated
Ratings at 50Hz (kVA) Class H	1505-2500
Ratings at 60Hz (kVA) Class H	1706-3000
Specifications	
Voltage Range	380-690
Poles	4/6
Technology	Wire Wound
AVR	Analogue
Voltage Sensing	2 Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 0
Terminals	6
Material Insulation Class	H
Excitation System	MX341/PMG
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Double
SAE Adaptors	SAE 00
Ingress Protection	IP44
Voltage Sensing	3 Phase
Temperature Monitoring	Winding RTDs
Temperature Monitoring	Thermistors
Environmental Protection	Anti-Condensation Heater
Adaptor Feet	✗
Flexible Feet	✓
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

Accessories

Factory Build Options
Anti-Condensation Heater
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

Available With	MX322™	MX341
Current Sensing Kit	✓	✓
Controlled Short Circuit	✓	✗
Manual Voltage Regulator	✓	✓
Frequency Detection Module	✓	✓
Power Factor Controller - PFC3	✓	✓
Remote Control Interface	✓	✓
Excitation Circuit Breaker	✓	✓
Dual AVR	✗	✗

Voltage Regulator Options	PMG
UL MX341	✓
UL MX322™	✓
DECS 150	✓
No AVR	✓

*Please contact our applications department for additional voltages that are available
**Ratings are preliminary and are subject to change

3 YEAR WARRANTY

S7LV Marine Ratings

50Hz

Class B (70°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	380		400		415		440	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	868	**1085**	892	**1115**	892	**1115**	876	**1095**
S7L1M-D4	920	**1150**	952	**1190**	952	**1190**	932	**1165**
S7L1M-E4	992	**1240**	1024	**1280**	1024	**1280**	1004	**1255**
S7L1M-F4	1060	**1325**	1096	**1370**	1096	**1370**	1072	**1340**
S7L1M-G4	1160	**1450**	1196	**1495**	1196	**1495**	1172	**1465**
S7L1M-H4	1228	**1535**	1268	**1585**	1268	**1585**	1240	**1550**
S7L1M-J4	1310.4	**1638**	1344	**1680**	1344	**1680**	1260	**1575**

Class F (90°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	380		400		415		440	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	944	**1180**	992	**1240**	1012	**1265**	992	**1240**
S7L1M-D4	1004	**1255**	1056	**1320**	1076	**1345**	1056	**1320**
S7L1M-E4	1056	**1320**	1096	**1370**	1096	**1370**	1088	**1360**
S7L1M-F4	1092	**1365**	1148	**1435**	1192	**1490**	1216	**1520**
S7L1M-G4	1200	**1500**	1264	**1580**	1312	**1640**	1332	**1665**
S7L1M-H4	1392	**1740**	1436	**1795**	1436	**1795**	1408	**1760**
S7L1M-J4	1542.4	**1928**	1584	**1980**	1584	**1980**	1460.8	**1826**

Class H (110°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	380		400		415		440	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	1060	**1325**	1092	**1365**	1092	**1365**	1072	**1340**
S7L1M-D4	1140	**1425**	1164	**1455**	1164	**1455**	1144	**1430**
S7L1M-E4	1200	**1500**	1232	**1540**	1232	**1540**	1212	**1515**
S7L1M-F4	1300	**1625**	1340	**1675**	1340	**1675**	1320	**1650**
S7L1M-G4	1424	**1780**	1464	**1830**	1464	**1830**	1440	**1800**
S7L1M-H4	1504	**1880**	1584	**1980**	1584	**1980**	1528	**1910**
S7L1M-J4	1708	**2135**	1760	**2200**	1760	**2200**	1600	**2000**

60Hz

Class B (70°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	416		440		460		480	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	980	**1225**	1045	**1306**	1070	**1337**	1090	**1362**
S7L1M-D4	1045	**1306**	1115	**1394**	1140	**1425**	1160	**1450**
S7L1M-E4	1096	**1370**	1160	**1450**	1220	**1525**	1260	**1575**
S7L1M-F4	1195	**1494**	1275	**1594**	1300	**1625**	1325	**1656**
S7L1M-G4	1350	**1687**	1440	**1800**	1470	**1837**	1500	**1875**
S7L1M-H4	1425	**1781**	1520	**1900**	1555	**1944**	1585	**1981**
S7L1M-J4	1450	**1812**	1530	**1913**	1600	**2000**	1670	**2088**

Class F (90°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	416		440		460		480	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	1115	**1394**	1185	**1481**	1210	**1512**	1235	**1544**
S7L1M-D4	1185	**1481**	1265	**1581**	1290	**1612**	1320	**1650**
S7L1M-E4	1240	**1550**	1320	**1650**	1380	**1725**	1432	**1790**
S7L1M-F4	1355	**1694**	1440	**1800**	1475	**1844**	1500	**1875**
S7L1M-G4	1530	**1912**	1630	**2037**	1660	**2075**	1700	**2125**
S7L1M-H4	1620	**2025**	1725	**2156**	1760	**2200**	1800	**2250**
S7L1M-J4	1710	**2137**	1815	**2269**	1890	**2363**	1980	**2475**

Class H (110°C Temperature Rise, Continuous, 50°C Ambient)

Winding Number	312							
Volts	416		440		460		480	
Model	kW	kVA	kW	kVA	kW	kVA	kW	kVA
S7L1M-C4	1210	**1512**	1290	**1612**	1310	**1637**	1335	**1669**
S7L1M-D4	1290	**1612**	1365	**1706**	1390	**1738**	1425	**1781**
S7L1M-E4	1300	**1625**	1370	**1712**	1430	**1787**	1500	**1875**
S7L1M-F4	1460	**1825**	1560	**1950**	1590	**1987**	1620	**2025**
S7L1M-G4	1655	**2069**	1760	**2200**	1795	**2244**	1830	**2288**
S7L1M-H4	1710	**2137**	1790	**2237**	1850	**2312**	1940	**2425**
S7L1M-J4	1830	**2288**	1940	**2425**	2025	**2531**	2115	**2644**

Specification

MODEL	S7 - Marine
Ratings at 50Hz (kVA) Class H	1325-2200
Ratings at 60Hz (kVA) Class H	1512-2644
Specifications	
Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Digital
Voltage Sensing	3 Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 0
Terminals	6
Material Insulation Class	H
Excitation System	MX322™/PMG
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Double
SAE Adaptors	SAE 00/no adaptor for double
Ingress Protection	IP44 complete machine
Voltage Sensing	3 Phase (MX341= 2 phase
Temperature Monitoring	Winding RTDs
Temperature Monitoring	Thermistors
Environmental Protection	Anti-Condensation Heater
Adaptor Feet	✗
Flexible Feet	✓
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

Accessories

Factory Build Options
Anti-Condensation Heater
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

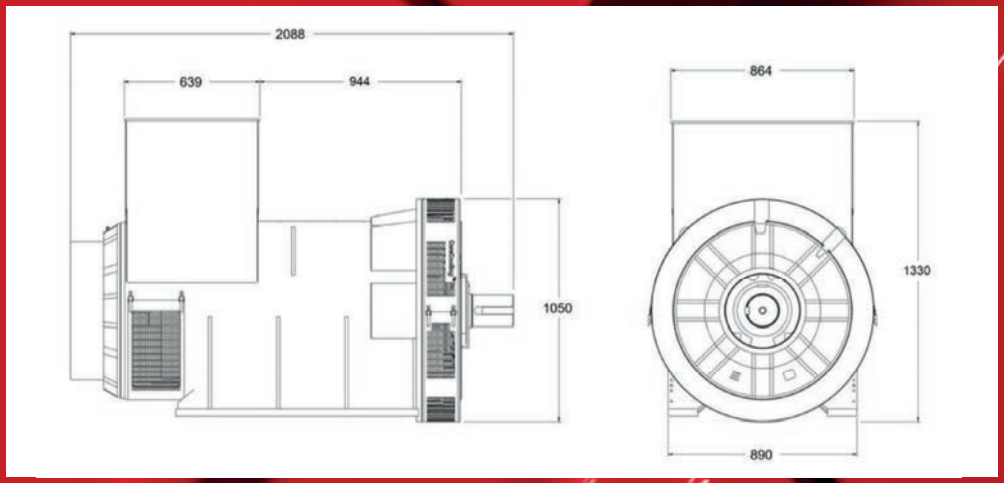
Available With	MX322™
Current Sensing Kit	✓
Controlled Short Circuit	✓
Manual Voltage Regulator	✓
Frequency Detection Module	✓
Power Factor Controller - PFC3	✓
Remote Control Interface	✓
Excitation Circuit Breaker	✓
Dual AVR	✗

Voltage Regulator Options	PMG
MX341	✓
DECS 100	✓
DECS 110	✓
DECS 150	✓

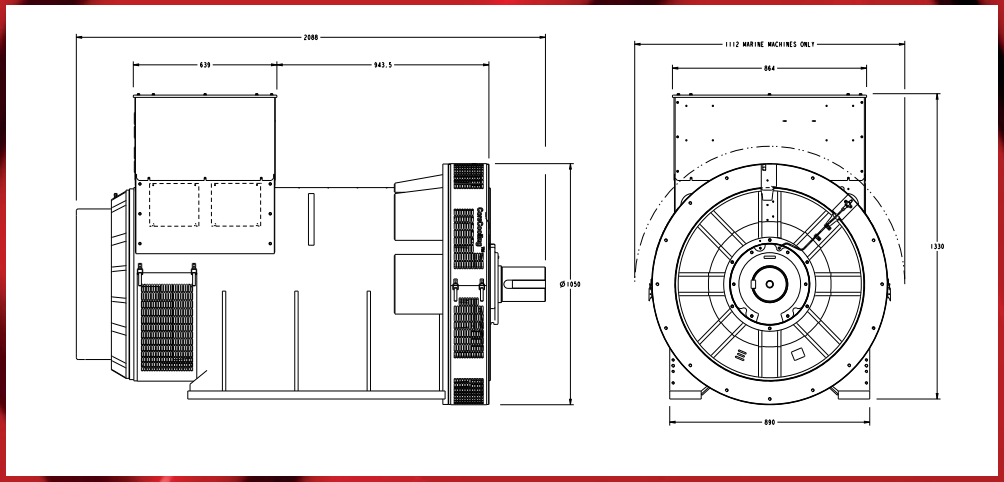
*Please contact our applications department for additional voltages that are available
**Ratings are preliminary and are subject to change

3 YEAR WARRANTY

S7 Low Voltage Dedicated Dimensions



S7 Low Voltage Marine Dimensions

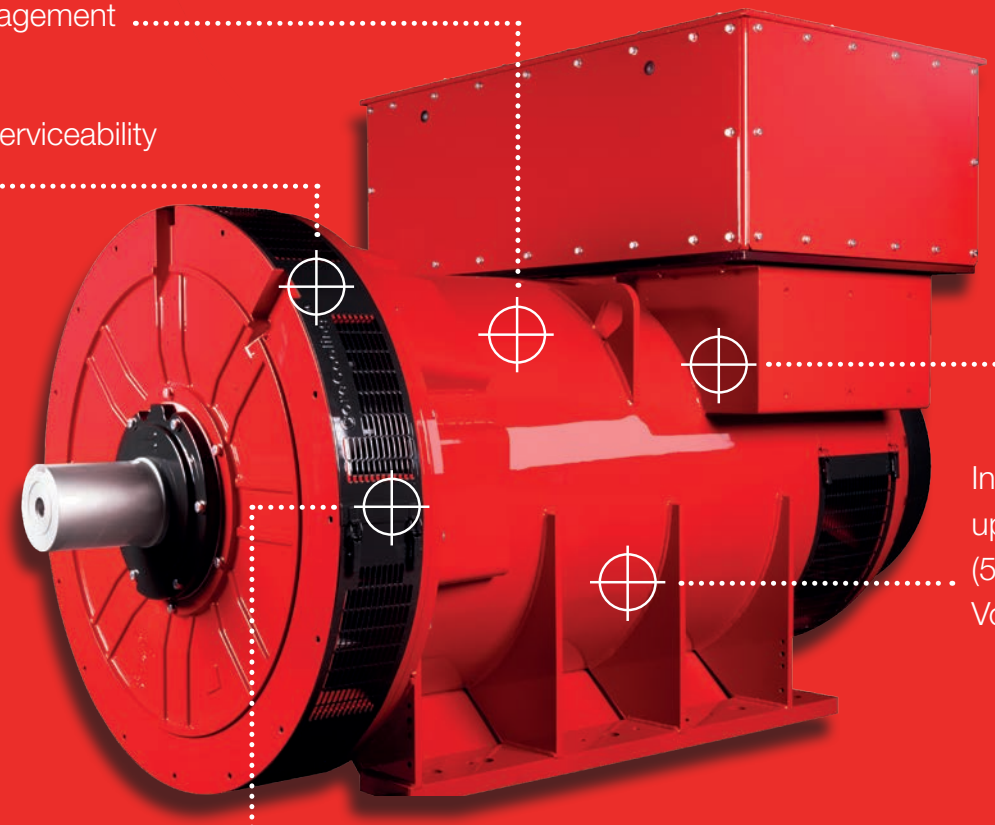


*S7 LV Dedicated - GA Drawings are indicative of S7-J core dimensions
**S7 LV Marine - GA Drawings are indicative of S7-J core dimensions

STAMFORD® S7

High Voltage Dedicated

GENUINE STAMFORD DESIGN



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

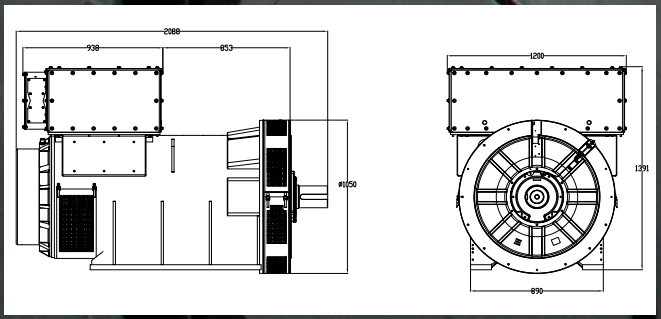
S7 High Voltage Dedicated Ratings

50Hz

Class H 125/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	864	**1080**	864	**1080**
S7H1D-D4	976	**1220**	976	**1220**
S7H1D-E4	1080	**1350**	1080	**1350**
S7H1D-F4	1300	**1625**	1300	**1625**

Standby 150/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	924	**1155**	924	**1155**
S7H1D-D4	1040	**1300**	1040	**1300**
S7H1D-E4	1152	**1440**	1152	**1440**
S7H1D-F4	1388	**1735**	1388	**1735**

Standby 163/27				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	948	**1185**	948	**1185**
S7H1D-D4	1072	**1340**	1072	**1340**
S7H1D-E4	1188	**1485**	1188	**1485**
S7H1D-F4	1428	**1785**	1428	**1785**



50Hz

Class F 105/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	**800**	1000	**800**	1000
S7H1D-D4	**900**	1125	**900**	1125
S7H1D-E4	**1000**	1250	**1000**	1250
S7H1D-F4	**1200**	1500	**1200**	1500

Specification

MODEL	S7 HV - Dedicated
Ratings at 50Hz (kVA) Class F	1000-1500
Ratings at 50Hz (kVA) Class H	1080-1625
Specifications	
Voltage Range	10500-11000
Poles	4
Technology	Form Wound
AVR	Digital
Voltage Sensing	3 Phase
Bearing Arrangement	Double
SAE Adaptors	None
Terminals	4
Temperature Monitoring	Winding RTDs 2 phase
Material Insulation Class	H
Excitation System	DECS100/PMG
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Single
Temperature Monitoring	Bearing RTD
SAE Adaptors	SAE0, SAE 00
Terminals	6 terminals, open starpoint
Environmental Protection	Anti-Condensation Heater
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

Accessories

Factory Build Options
Anti-Condensation Heater
Bearing RTD (Each Bearing)

Available With	DECS 100
Current Sensing Kit	✓
Controlled Short Circuit	✗
Manual Voltage Regulator	✓
Frequency Detection Module	✓
Power Factor Controller	✓
Remote Control Interface	✗
Excitation Circuit Breaker	✗
Dual AVR	✗

Voltage Regulator Options	PMG
No AVR	✓

*Please contact our applications department for additional voltages that are available
**Ratings are preliminary and are subject to change
***S7 HV - GA Drawings are indicative of S7-F core dimensions

3 YEAR WARRANTY

Applications

Case Study

Purpose:
Oil and Gas Drilling

Location:
Western China

Specified:
4 x **STAMFORD®** S7LV

Q Power required four alternators, each providing power at 1200kW, with ambient temperature ranging from -15°C to 50°C. This would aid the power of the energy supply for the manufacturing and industry development for the region and contribute to a level of energy safety.

NEWAGE® I STAMFORD®I AvK® were able to fulfil the specification through dedicated product sizing, exceptional upfit options and corresponding manufacturing process, including a strict insulation process. The **S7LV** enhanced product design allowed a user-friendly genset for on-site assembly with a spacious interface. In addition, the double bearing enabled ease of serviceability and ensured that dust was decreased in the environment.

“We have trust in the manufacturing process of **NEWAGE® I STAMFORD®I AvK®** products”

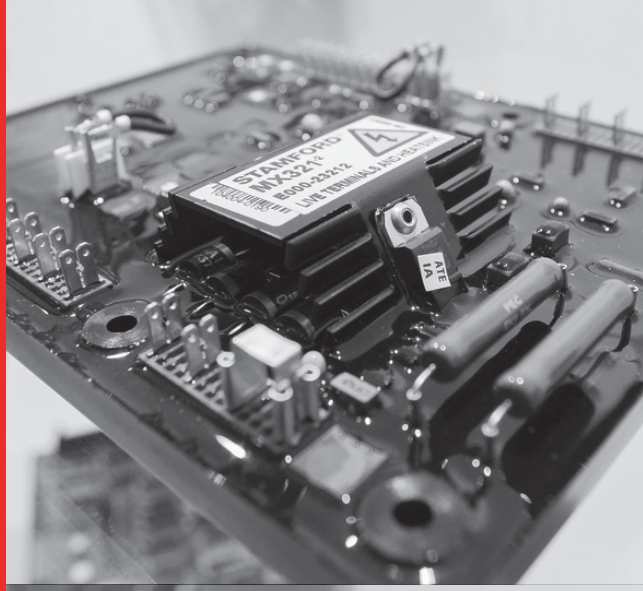
- Guodong Zhang - General Manager, Q Power

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® I 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 NEWAGE, STAMFORD and AvK genuine products.



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GENUINE STAMFORD DESIGN

PRODUCT HERITAGE

1950
World's First regulating alternator produced

1958
World's First rotating field alternator produced

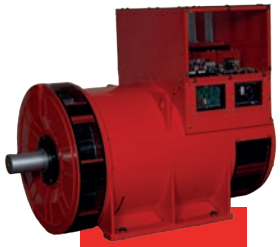
1966
C Range

1966
World's First volume produced brushless alternator

1973
AC Range

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

1988
UC Range



2004
P7 Range

2007
P0/P1
Range

2016
S Range

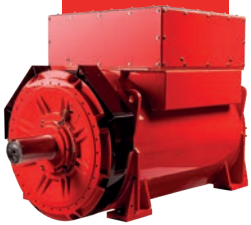
2019
S7 Range

1985
HC Range

1992
BC Range

2016
S0/S1
Range

2017
S6 Range



2019
S9 Range

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