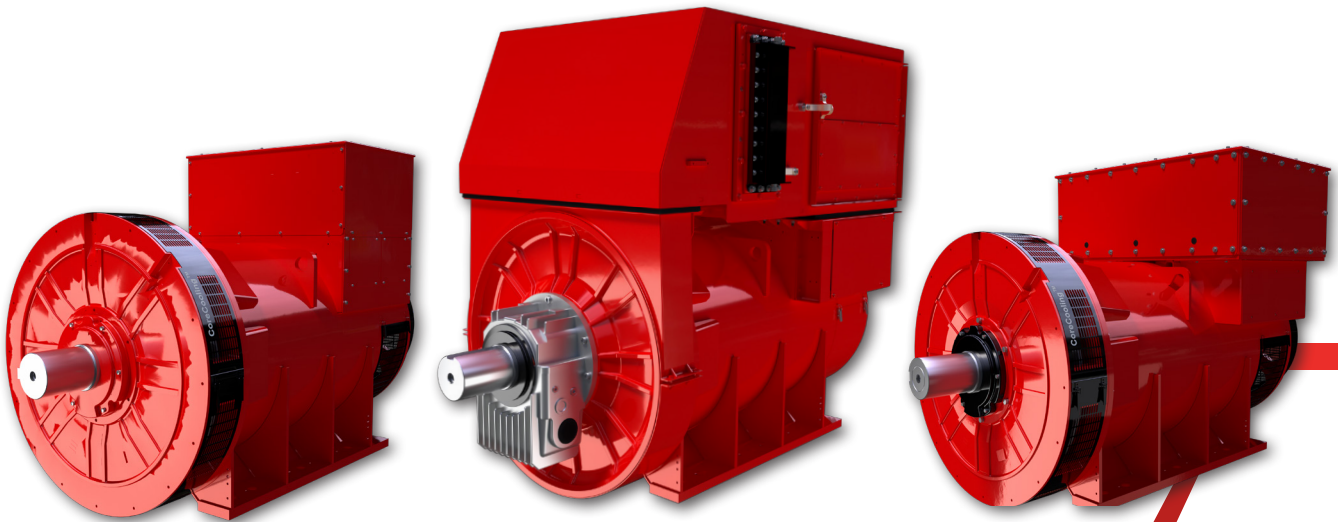


# OUR DIFFERENCE? THE DETAIL.

**3 YEAR  
WARRANTY**



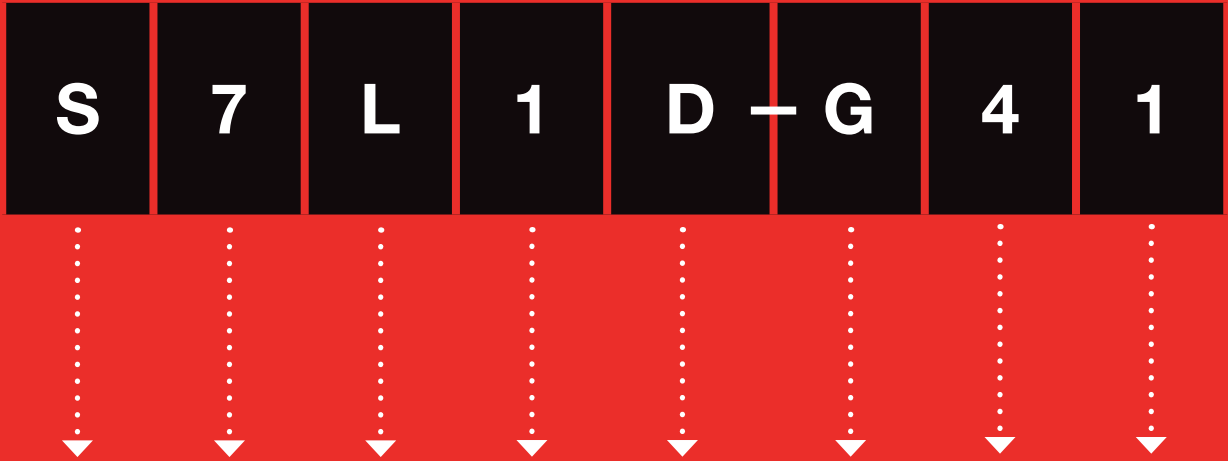
S6



**STAMFORD® S7**

Fitted with  
**CoreCooling™**  
technology

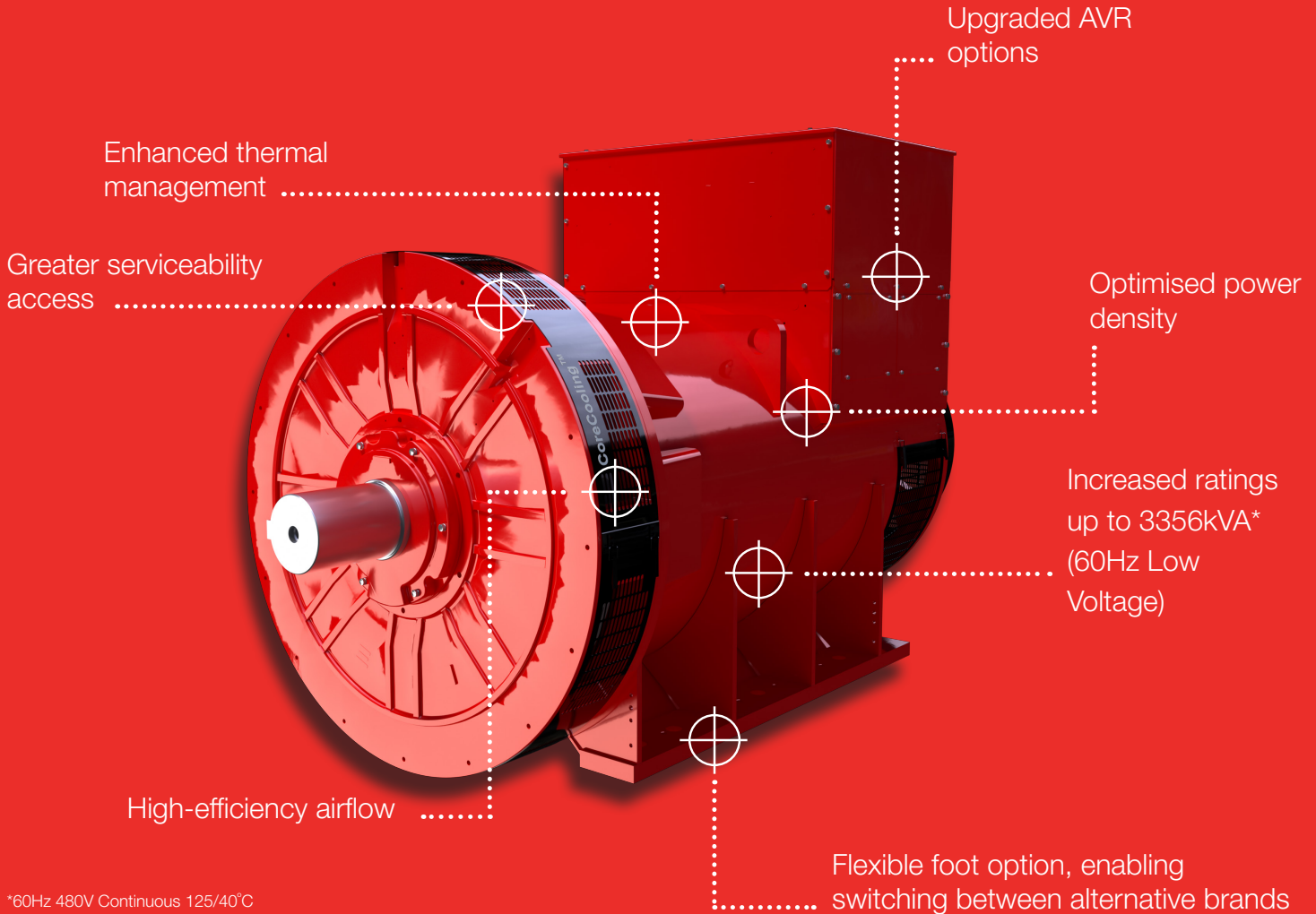
# The S7 Nomenclature



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

# STAMFORD® S7

## Low Voltage Dedicated



\*60Hz 480V Continuous 125/40°C

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
S7L1D-K4	2240	2800	2240	2800	2200	2750

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
S7L1D-K4	2328	2910	2328	2910	2288	2860

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
S7L1D-K4	2400	3000	2400	3000	2356	2945

## 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
S7L1D-K4	2330	2913	2465	3081	2685	3356

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
S7L1D-K4	2430	3038	2685	3356	2800	3500

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
S7L1D-K4	2490	3113	2635	3294	2875	3594

# Specification

MODEL	S7 LV - Dedicated
Ratings at 50Hz (kVA) Class H*	1550-2800
Ratings at 60Hz (kVA) Class H**	1894-3356
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 (C-H core only)
	MX322™/PMG (J-K core only)
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	✓

\*50Hz 400V Continuous 125/40°C

\*\*60Hz 480V Continuous 125/40°C

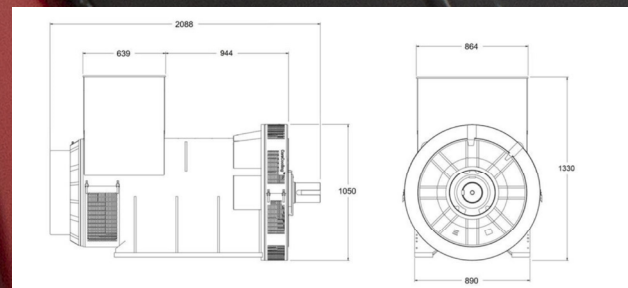
# Accessories

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 100	✓
DECS 110	✓
DECS 150	✓
No AVR	✓

\*\*\* MX341 not available on S7 K-core



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

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 380-480V

## 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	<b>1085</b>	892	<b>1115</b>	892	<b>1115</b>	876	<b>1095</b>
S7L1M-D4	920	<b>1150</b>	952	<b>1190</b>	952	<b>1190</b>	932	<b>1165</b>
S7L1M-E4	992	<b>1240</b>	1024	<b>1280</b>	1024	<b>1280</b>	1004	<b>1255</b>
S7L1M-F4	1060	<b>1325</b>	1096	<b>1370</b>	1096	<b>1370</b>	1072	<b>1340</b>
S7L1M-G4	1160	<b>1450</b>	1196	<b>1495</b>	1196	<b>1495</b>	1172	<b>1465</b>
S7L1M-H4	1228	<b>1535</b>	1268	<b>1585</b>	1268	<b>1585</b>	1240	<b>1550</b>
S7L1M-J4	1310.4	<b>1638</b>	1344	<b>1680</b>	1344	<b>1680</b>	1260	<b>1575</b>

### 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	<b>1180</b>	992	<b>1240</b>	1012	<b>1265</b>	992	<b>1240</b>
S7L1M-D4	1004	<b>1255</b>	1056	<b>1320</b>	1076	<b>1345</b>	1056	<b>1320</b>
S7L1M-E4	1056	<b>1320</b>	1096	<b>1370</b>	1096	<b>1370</b>	1088	<b>1360</b>
S7L1M-F4	1092	<b>1365</b>	1148	<b>1435</b>	1192	<b>1490</b>	1216	<b>1520</b>
S7L1M-G4	1200	<b>1500</b>	1264	<b>1580</b>	1312	<b>1640</b>	1332	<b>1665</b>
S7L1M-H4	1392	<b>1740</b>	1436	<b>1795</b>	1436	<b>1795</b>	1408	<b>1760</b>
S7L1M-J4	1542.4	<b>1928</b>	1584	<b>1980</b>	1584	<b>1980</b>	1460.8	<b>1826</b>

### 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	<b>1325</b>	1092	<b>1365</b>	1092	<b>1365</b>	1072	<b>1340</b>
S7L1M-D4	1140	<b>1425</b>	1164	<b>1455</b>	1164	<b>1455</b>	1144	<b>1430</b>
S7L1M-E4	1200	<b>1500</b>	1232	<b>1540</b>	1232	<b>1540</b>	1212	<b>1515</b>
S7L1M-F4	1300	<b>1625</b>	1340	<b>1675</b>	1340	<b>1675</b>	1320	<b>1650</b>
S7L1M-G4	1424	<b>1780</b>	1464	<b>1830</b>	1464	<b>1830</b>	1440	<b>1800</b>
S7L1M-H4	1504	<b>1880</b>	1584	<b>1980</b>	1584	<b>1980</b>	1528	<b>1910</b>
S7L1M-J4	1708	<b>2135</b>	1760	<b>2200</b>	1760	<b>2200</b>	1600	<b>2000</b>

## 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	<b>1225</b>	1045	<b>1306</b>	1070	<b>1337</b>	1090	<b>1362</b>
S7L1M-D4	1045	<b>1306</b>	1115	<b>1394</b>	1140	<b>1425</b>	1160	<b>1450</b>
S7L1M-E4	1096	<b>1370</b>	1160	<b>1450</b>	1220	<b>1525</b>	1260	<b>1575</b>
S7L1M-F4	1195	<b>1494</b>	1275	<b>1594</b>	1300	<b>1625</b>	1325	<b>1656</b>
S7L1M-G4	1350	<b>1687</b>	1440	<b>1800</b>	1470	<b>1837</b>	1500	<b>1875</b>
S7L1M-H4	1425	<b>1781</b>	1520	<b>1900</b>	1555	<b>1944</b>	1585	<b>1981</b>
S7L1M-J4	1450	<b>1812</b>	1530	<b>1913</b>	1600	<b>2000</b>	1670	<b>2088</b>

### 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	<b>1394</b>	1185	<b>1481</b>	1210	<b>1512</b>	1235	<b>1544</b>
S7L1M-D4	1185	<b>1481</b>	1265	<b>1581</b>	1290	<b>1612</b>	1320	<b>1650</b>
S7L1M-E4	1240	<b>1550</b>	1320	<b>1650</b>	1380	<b>1725</b>	1432	<b>1790</b>
S7L1M-F4	1355	<b>1694</b>	1440	<b>1800</b>	1475	<b>1844</b>	1500	<b>1875</b>
S7L1M-G4	1530	<b>1912</b>	1630	<b>2037</b>	1660	<b>2075</b>	1700	<b>2125</b>
S7L1M-H4	1620	<b>2025</b>	1725	<b>2156</b>	1760	<b>2200</b>	1800	<b>2250</b>
S7L1M-J4	1710	<b>2137</b>	1815	<b>2269</b>	1890	<b>2363</b>	1980	<b>2475</b>

### 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	<b>1512</b>	1290	<b>1612</b>	1310	<b>1637</b>	1335	<b>1669</b>
S7L1M-D4	1290	<b>1612</b>	1365	<b>1706</b>	1390	<b>1738</b>	1425	<b>1781</b>
S7L1M-E4	1300	<b>1625</b>	1370	<b>1712</b>	1430	<b>1787</b>	1500	<b>1875</b>
S7L1M-F4	1460	<b>1825</b>	1560	<b>1950</b>	1590	<b>1987</b>	1620	<b>2025</b>
S7L1M-G4	1655	<b>2069</b>	1760	<b>2200</b>	1795	<b>2244</b>	1830	<b>2288</b>
S7L1M-H4	1710	<b>2137</b>	1790	<b>2237</b>	1850	<b>2312</b>	1940	<b>2425</b>
S7L1M-J4	1830	<b>2288</b>	1940	<b>2425</b>	2025	<b>2531</b>	2115	<b>2644</b>

# S7LV Marine Ratings 660-690V

## 50Hz

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	960	<b>1200</b>	960	<b>1200</b>
S7L1M-E4	992	<b>1240</b>	992	<b>1240</b>
S7L1M-F4	1020	<b>1275</b>	1020	<b>1275</b>
S7L1M-J4	1316	<b>1645</b>	1316	<b>1645</b>

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	1076	<b>1345</b>	1076	<b>1345</b>
S7L1M-E4	1088	<b>1360</b>	1088	<b>1360</b>
S7L1M-F4	1152	<b>1440</b>	1152	<b>1440</b>
S7L1M-J4	1556	<b>1945</b>	1556	<b>1945</b>

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	1164	<b>1455</b>	1164	<b>1455</b>
S7L1M-E4	1208	<b>1510</b>	1208	<b>1510</b>
S7L1M-F4	1312	<b>1640</b>	1312	<b>1640</b>
S7L1M-J4	1728	<b>2160</b>	1728	<b>2160</b>

## 60Hz

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	1132	<b>1415</b>	1132	<b>1415</b>
S7L1M-E4	1164	<b>1455</b>	1164	<b>1455</b>
S7L1M-F4	1196	<b>1495</b>	1196	<b>1495</b>
S7L1M-J4	1528	<b>1910</b>	1528	<b>1910</b>

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	1268	<b>1585</b>	1268	<b>1585</b>
S7L1M-E4	1280	<b>1600</b>	1280	<b>1600</b>
S7L1M-F4	1352	<b>1690</b>	1352	<b>1690</b>
S7L1M-J4	1808	<b>2260</b>	1808	<b>2260</b>

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1M-D4	1372	<b>1715</b>	1372	<b>1715</b>
S7L1M-E4	1420	<b>1775</b>	1420	<b>1775</b>
S7L1M-F4	1540	<b>1925</b>	1540	<b>1925</b>
S7L1M-J4	2008	<b>2510</b>	2008	<b>2510</b>

# Specification

MODEL	S7LV - Marine
Ratings at 50Hz (kVA) Class H*	1365-2200
Ratings at 60Hz (kVA) Class H**	1669-2644
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	X
Flexible Feet	✓
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

\*50Hz 400V Continuous 125/40°C

\*\*60Hz 480V Continuous 125/40°C

The standard S7 air-cooled marine product is also available with sleeve bearings (2 bearings only)

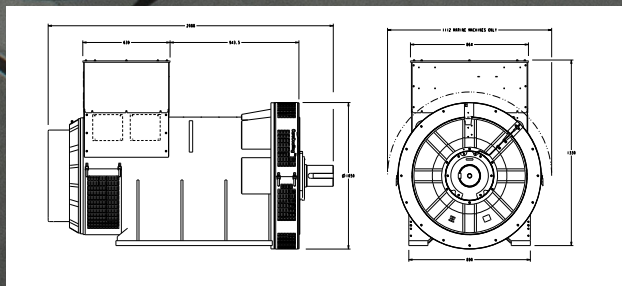
S7 LV Marine - GA Drawings are indicative of S7-J core dimensions  
Please contact our applications department for additional voltages that are available

# 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	X

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



**3 YEAR  
WARRANTY**



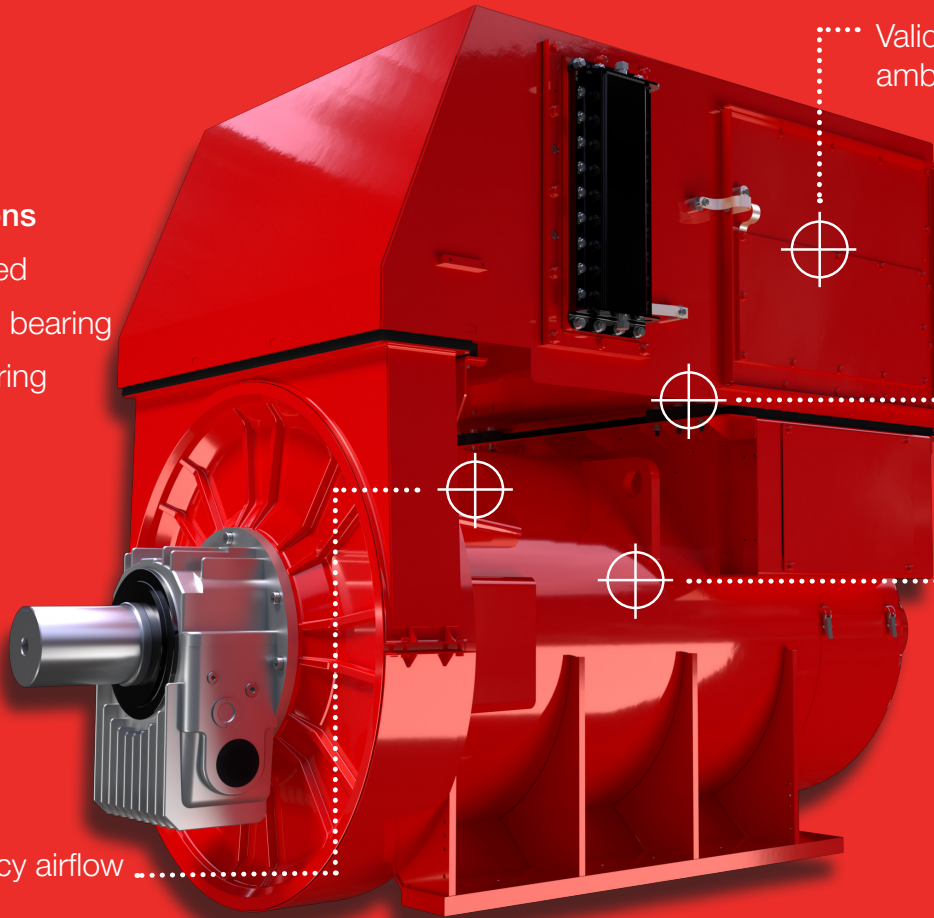
# STAMFORD® S7

## Low Voltage Water Cooled



### Flexible Options

- Water cooled
- Anti-friction bearing
- Sleeve bearing



Validated at high ambient temperature

Anti-vibration mounts for high reliability

Class H insulation as standard for superior thermal life

High-efficiency airflow

### Uptime Maximised

- Flexibility of applications usage including PTO (Power Take Off) and PTI (Power Take In)
- Meets a wide range of marine classifications including IP23, IP54 and SOLAS
- Supports overload capability of 110% for every one in twelve hours (as per ISO8528)
- 3 x short circuit current handling capability

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 Water Cooled Ratings 380-480V

## 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
S7L1W-D4	920	<b>1150</b>	952	<b>1190</b>	952	<b>1190</b>	932	<b>1165</b>
S7L1W-E4	992	<b>1240</b>	1024	<b>1280</b>	1024	<b>1280</b>	1004	<b>1255</b>
S7L1W-F4	1060	<b>1325</b>	1096	<b>1370</b>	1096	<b>1370</b>	1072	<b>1340</b>
S7L1W-J4	1310	<b>1638</b>	1344	<b>1680</b>	1344	<b>1680</b>	1260	<b>1575</b>

### 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
S7L1W-D4	1004	<b>1255</b>	1056	<b>1320</b>	1076	<b>1345</b>	1056	<b>1320</b>
S7L1W-E4	1056	<b>1320</b>	1096	<b>1370</b>	1096	<b>1370</b>	1088	<b>1360</b>
S7L1W-F4	1092	<b>1365</b>	1148	<b>1435</b>	1192	<b>1490</b>	1216	<b>1520</b>
S7L1W-J4	1542	<b>1928</b>	1584	<b>1980</b>	1584	<b>1980</b>	1460	<b>1826</b>

### 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
S7L1W-D4	1140	<b>1425</b>	1164	<b>1455</b>	1164	<b>1455</b>	1144	<b>1430</b>
S7L1W-E4	1200	<b>1500</b>	1232	<b>1540</b>	1232	<b>1540</b>	1212	<b>1515</b>
S7L1W-F4	1300	<b>1625</b>	1340	<b>1675</b>	1340	<b>1675</b>	1320	<b>1650</b>
S7L1W-J4	1708	<b>2135</b>	1760	<b>2200</b>	1760	<b>2200</b>	1600	<b>2000</b>

## 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
S7L1W-D4	1045	<b>1306</b>	1115	<b>1394</b>	1140	<b>1425</b>	1160	<b>1450</b>
S7L1W-E4	1096	<b>1370</b>	1160	<b>1450</b>	1220	<b>1525</b>	1260	<b>1575</b>
S7L1W-F4	1195	<b>1494</b>	1275	<b>1594</b>	1300	<b>1625</b>	1325	<b>1656</b>
S7L1W-J4	1450	<b>1812</b>	1530	<b>1913</b>	1600	<b>2000</b>	1670	<b>2088</b>

### 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
S7L1W-D4	1185	<b>1481</b>	1265	<b>1581</b>	1290	<b>1612</b>	1320	<b>1650</b>
S7L1W-E4	1240	<b>1550</b>	1320	<b>1650</b>	1380	<b>1725</b>	1432	<b>1790</b>
S7L1W-F4	1355	<b>1694</b>	1440	<b>1800</b>	1475	<b>1844</b>	1500	<b>1875</b>
S7L1W-J4	1710	<b>2137</b>	1815	<b>2269</b>	1890	<b>2363</b>	1980	<b>2475</b>

### 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
S7L1W-D4	1290	<b>1612</b>	1365	<b>1706</b>	1390	<b>1738</b>	1425	<b>1781</b>
S7L1W-E4	1300	<b>1625</b>	1370	<b>1712</b>	1430	<b>1787</b>	1500	<b>1875</b>
S7L1W-F4	1460	<b>1825</b>	1560	<b>1950</b>	1590	<b>1987</b>	1620	<b>2025</b>
S7L1W-J4	1830	<b>2288</b>	1940	<b>2425</b>	2025	<b>2531</b>	2115	<b>2644</b>

Ratings are based on a water inlet temperature of 38°C  
Ratings are preliminary and subject to change

# S7 Low Voltage Water Cooled Ratings 660-690V

## 50Hz

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	960	<b>1200</b>	960	<b>1200</b>
S7L1W-E4	992	<b>1240</b>	992	<b>1240</b>
S7L1W-F4	1020	<b>1275</b>	1020	<b>1275</b>
S7L1W-J4	1316	<b>1645</b>	1316	<b>1645</b>

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	1076	<b>1345</b>	1076	<b>1345</b>
S7L1W-E4	1088	<b>1360</b>	1088	<b>1360</b>
S7L1W-F4	1152	<b>1440</b>	1152	<b>1440</b>
S7L1W-J4	1556	<b>1945</b>	1556	<b>1945</b>

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

Winding Number	26			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	1164	<b>1455</b>	1164	<b>1455</b>
S7L1W-E4	1208	<b>1510</b>	1208	<b>1510</b>
S7L1W-F4	1312	<b>1640</b>	1312	<b>1640</b>
S7L1W-J4	1728	<b>2160</b>	1728	<b>2160</b>

## 60Hz

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	1132	<b>1415</b>	1132	<b>1415</b>
S7L1W-E4	1164	<b>1455</b>	1164	<b>1455</b>
S7L1W-F4	1196	<b>1495</b>	1196	<b>1495</b>
S7L1W-J4	1528	<b>1910</b>	1528	<b>1910</b>

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	1268	<b>1585</b>	1268	<b>1585</b>
S7L1W-E4	1280	<b>1600</b>	1280	<b>1600</b>
S7L1W-F4	1352	<b>1690</b>	1352	<b>1690</b>
S7L1W-J4	1808	<b>2260</b>	1808	<b>2260</b>

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

Winding Number	28			
Volts	660		690	
Model	kW	kVA	kW	kVA
S7L1W-D4	1372	<b>1715</b>	1372	<b>1715</b>
S7L1W-E4	1420	<b>1775</b>	1420	<b>1775</b>
S7L1W-F4	1540	<b>1925</b>	1540	<b>1925</b>
S7L1W-J4	2008	<b>2510</b>	2008	<b>2510</b>

# Specification

MODEL	S7LV - Water Cooled
Ratings at 50Hz (kVA) Class H*	1425-2200
Ratings at 60Hz (kVA) Class H**	1612-2644
Specifications	
Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	MX322™
Voltage Sensing	3 Phase
Bearing Design	Anti-friction
Bearing Arrangement	Double
SAE Adaptors	SAE 0
Terminals	6
Material Insulation Class	Class H
Excitation System	MX322™/PMG
Ingress Protection	IP23, IP54
Connection with other machines	Paralleling capability
Cooling Method	Water cooled (IC81W)
Optional Features	
Bearing Design	Sleeve
SAE Adaptors	SAE 00, None
Flexible Feet	✓
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

\*50Hz 400V Continuous 125/40°C

\*\*60Hz 480V Continuous 125/40°C

Adaptors to be provided on anti-friction bearing machines only

The standard S7 air-cooled marine product is also available with sleeve bearings (2 bearings only)

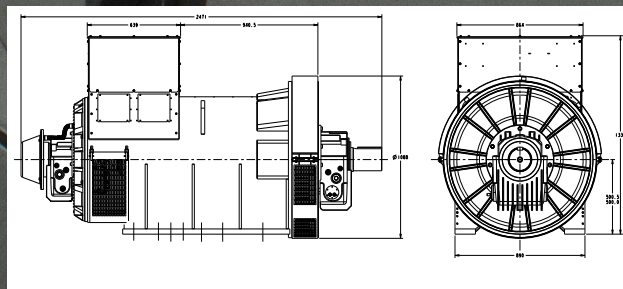
S7 Water Cooled - GA Drawings are indicative of S7-J core dimensions  
Please contact our applications department for additional voltages that are available

# Accessories

Factory Build Options
Anti-Condensation Heater
Quadrature Droop Kit
Bearing RTD (Each Bearing)
Remote Voltage Trimmer
Radio Frequency Interference (RFI) Suppressor Kit
Excitation Loss Module
Diode Failure Detector
Winding RTDs and Thermistors (in another level)
Protection CTs

**STAMFORD** alternators meet the classification requirements of all major marine societies. Certifications can be considered on request

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	✓



**3 YEAR  
WARRANTY**

# STAMFORD® S7

High Voltage Dedicated 5/6<sup>th</sup> & 2/3<sup>rd</sup> pitch



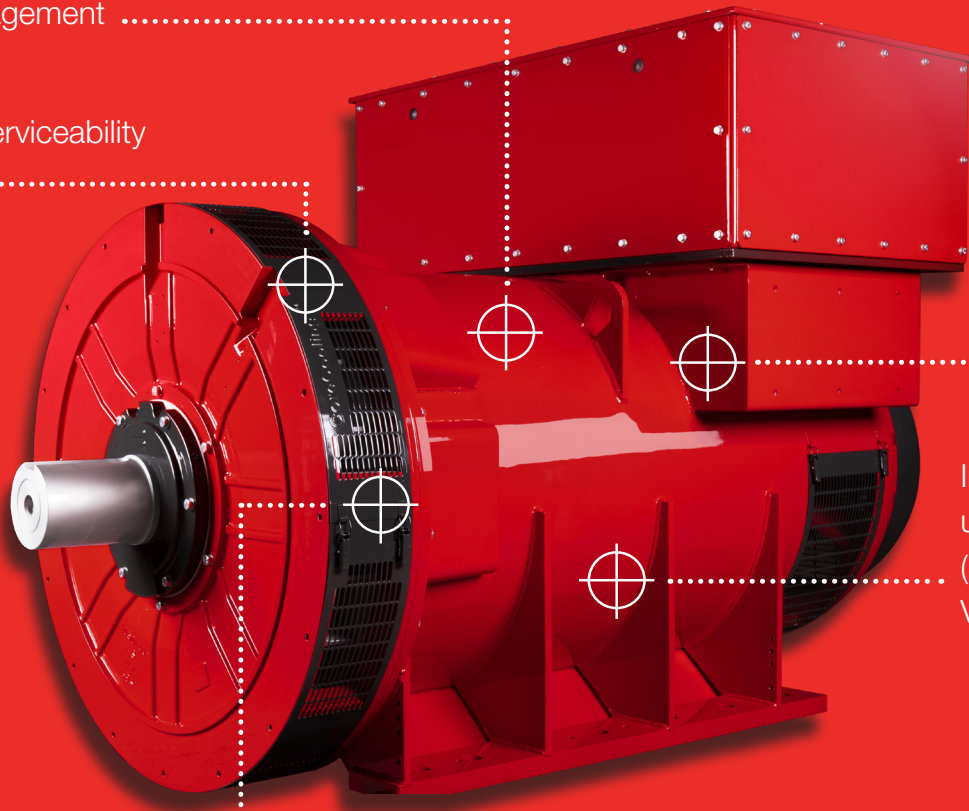
Enhanced thermal management .....

Greater serviceability access .....

Optimised power density

Increased ratings up to 1625 kVA\* (50Hz High Voltage)

High-efficiency airflow .....



\*50Hz 10500V Continuous 125/40°C 5/6<sup>th</sup> pitch

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 5/6<sup>th</sup> pitch

## 50Hz

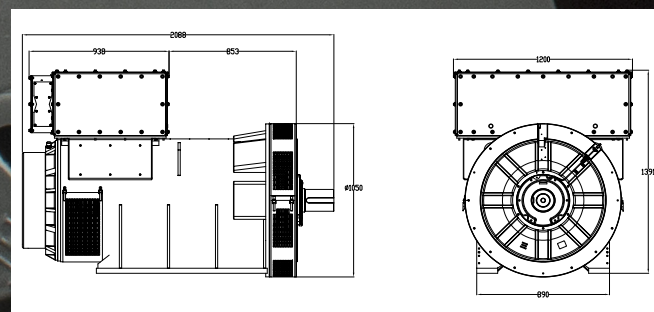
Class H 125/40				
Winding Number	83			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	864	1080	864	1080
S7H1D-D4	976	1220	976	1220
S7H1D-E4	1080	1350	1080	1350
S7H1D-F4	1300	1625	1300	1625

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	S7HV - 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	✓

\*50Hz 10500V Continuous 105/40°C

\*\*50Hz 10500V Continuous 125/40°C

# Accessories

## Factory Build Options

Anti-Condensation Heater
Bearing RTD (Each Bearing)

## Available With

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

## 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

**3 YEAR  
WARRANTY**

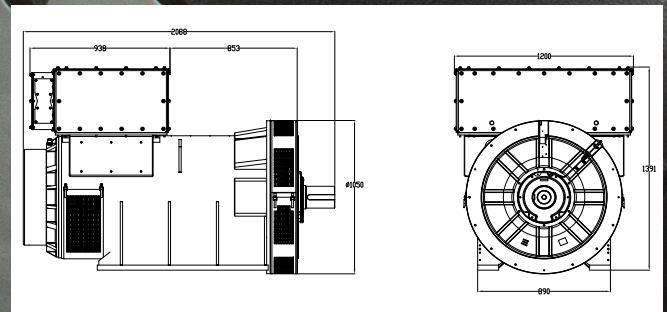
# S7 High Voltage Dedicated Ratings 2/3<sup>rd</sup> pitch

50Hz

<b>Class H 125/40</b>				
Winding Number	983			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	752	<b>940</b>	752	<b>940</b>
S7H1D-D4	860	<b>1075</b>	860	<b>1075</b>
S7H1D-E4	940	<b>1175</b>	940	<b>1175</b>
S7H1D-F4	1132	<b>1415</b>	1132	<b>1415</b>

<b>Standby 150/40</b>				
Winding Number	983			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	804	<b>1005</b>	804	<b>1005</b>
S7H1D-D4	908	<b>1135</b>	908	<b>1135</b>
S7H1D-E4	1004	<b>1255</b>	1004	<b>1255</b>
S7H1D-F4	1208	<b>1510</b>	1208	<b>1510</b>

<b>Standby 163/27</b>				
Winding Number	983			
Volts	10500		11000	
Model	kW	kVA	kW	kVA
S7H1D-C4	828	<b>1035</b>	828	<b>1035</b>
S7H1D-D4	936	<b>1170</b>	936	<b>1170</b>
S7H1D-E4	1036	<b>1295</b>	1036	<b>1295</b>
S7H1D-F4	1244	<b>1555</b>	1244	<b>1555</b>



S7 HV - GA Drawings are indicative of S7-F core dimensions



# Specification

MODEL	S7HV - Dedicated
Ratings at 50Hz (kVA) Class F*	870-1305
Ratings at 50Hz (kVA) Class H**	940-1415
Specifications	
Voltage Range	10500-11000
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage Sensing	3 Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 0
Terminals	4
Material Insulation Class	H
Excitation System	DECS100/PMG
Ingress Protection	IP23
Connection with other machines	Paralleling capability
Optional Features	
Bearing Arrangement	Double
Temperature Monitoring	Winding RTDs, Thermistors
SAE Adaptors	SAE 00
Terminals	6 terminals, open starpoint
Environmental Protection	Anti-Condensation Heater
Prime Movers	
Diesel Engine	✓
Gas Engine	✓

\*50Hz 10500V Continuous 105/40°C

\*\*50Hz 10500V Continuous 125/40°C

# Accessories

## Factory Build Options

Anti-Condensation Heater  
Bearing RTD (Each Bearing)

## Available With

Available With	DECS 100
Current Sensing Kit	✓
Controlled Short Circuit	X
Manual Voltage Regulator	✓
Frequency Detection Module	✓
Power Factor Controller PFC3	✓
Remote Control Interface	X
Excitation Circuit Breaker	X
Dual AVR	X

## Voltage Regulator Options

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

**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®** | **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](mailto:applications@cummins.com)

### **For Customer Service:**

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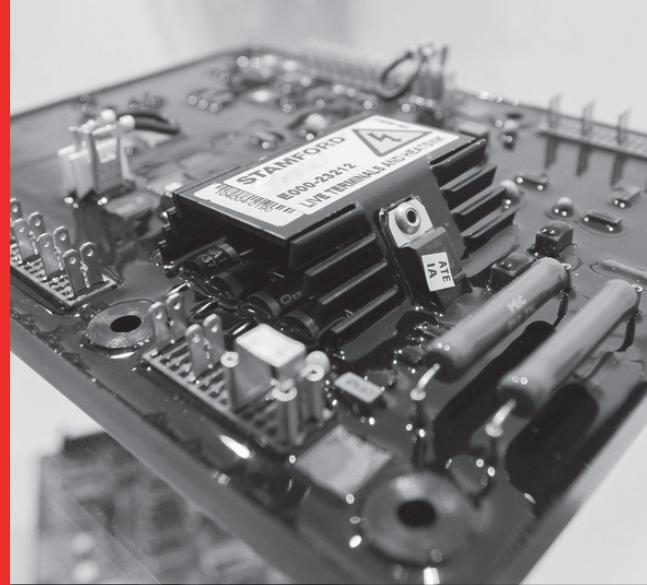
India: [Cgtil.Csnotify@cummins.com](mailto:Cgtil.Csnotify@cummins.com)

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