

product profile

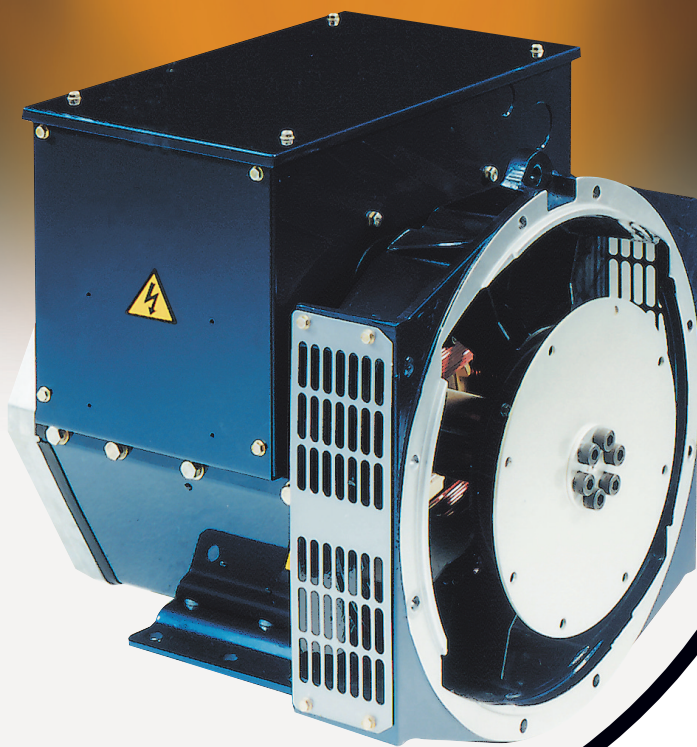
BC164 RANGE

Voltages

110V - 600V

Outputs

from 8.1 - 20 kVA



FEATURES:

- Advanced automatic voltage regulator (AVR) control for trouble-free operation under the most demanding conditions
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings
- Easy access for installation and maintenance
- IP23 as standard

OPTIONS & ACCESSORIES:

- Anti Condensation Heaters
- Air Filters
- RFI Suppression to EC Standards
- SX465 AVR's for Parallel Operation
- Quadrature Droop kit for Parallel Operation
- SA465 AVR with 1% Regulation and 2 Phase Sensing
- SX421 AVR with improved Regulation 0.5% and 3 Phase Sensing (supplied loose)

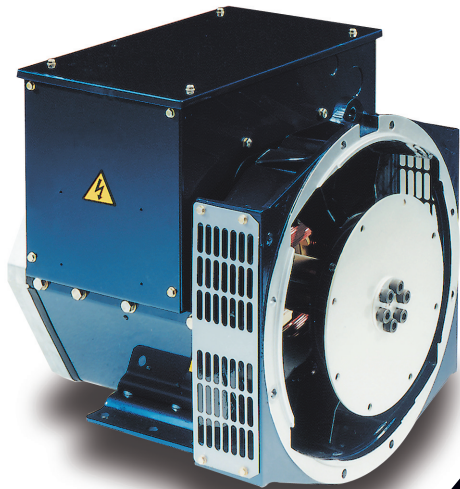
STAMFORD
power generation

product profile

BC164 RANGE

TYPICAL APPLICATIONS:

Combined Heat & Power
Parallel Operation
Base Load Prime
Standby
Telecommunication



Standard Windings (311)

3 Phase Ratings for STAMFORD BC164 Generators

	50Hz (1500 rpm)	60Hz (1800 rpm)	
Rating/Ambient	Base 40°C	Base 40°C	
Application/Temp Rise	Continuous 125°C	Continuous 125°C	
Voltage	380 - 415V	416V	460 - 480V
Power Factor	0.8	0.8	0.8
BC 164A kVA	8.1	9.6	10.2
kW	6.5	7.7	8.2
BC 164B kVA	11.0	13.0	13.8
kW	8.8	10.4	11.0
BC 164C kVA	13.5	16.0	16.9
kW	10.8	12.8	13.5
BC 164D kVA	16.0	18.9	20.0
kW	12.8	15.1	16.0

1 Phase Ratings for STAMFORD BC164 Generators

Winding	12 Wire Reconnectable		12 Wire Reconnectable			
	50Hz (1500 rpm)	60Hz (1800 rpm)	50Hz (1500 rpm)	60Hz (1800 rpm)	50Hz (1500 rpm)	60Hz (1800 rpm)
Rating/Ambient	Base 40°C	Base 40°C	Base 40°C	Base 40°C	Base 40°C	Base 40°C
Application/Temp Rise	Continuous 125°C	Continuous 125°C	Continuous 125°C	Continuous 125°C	Continuous 125°C	Continuous 125°C
Voltage	220 - 240V	240V	220 - 240V	240V	220 - 240V	240V
	PF 0.8	PF 0.8	PF 1	PF 0.8	PF 1	PF 0.8
BC 164A kVA	4.7	5.6	6.8	5.4	8.2	6.4
kW	3.8	4.5	6.8	4.3	8.2	5.1
BC 164B kVA	6.4	7.5	8.4	7.4	11.0	8.8
kW	5.1	6.0	8.4	5.9	11.0	7.0
BC 164C kVA	7.8	9.3	11.0	9.0	13.5	10.8
kW	6.2	7.4	11.0	7.2	13.5	8.6
BC 164D kVA	9.3	11.0	13.0	10.8	16.5	13.5
kW	7.4	8.8	13.0	8.6	16.5	10.8

Due to our policy of continuous improvement, details in this leaflet which were correct at time of printing may now be due for amendment. Information included must therefore not be regarded as binding

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NEWAGE
AVK SEG



I want a
compact
alternator
for my
generator
set

Our new S0 and S1
is lighter and more
compact than previous
alternators, without
compromising on genuine
STAMFORD quality

YOU ASKED.
WE LISTENED.



The new
STAMFORD®
S0 & S1

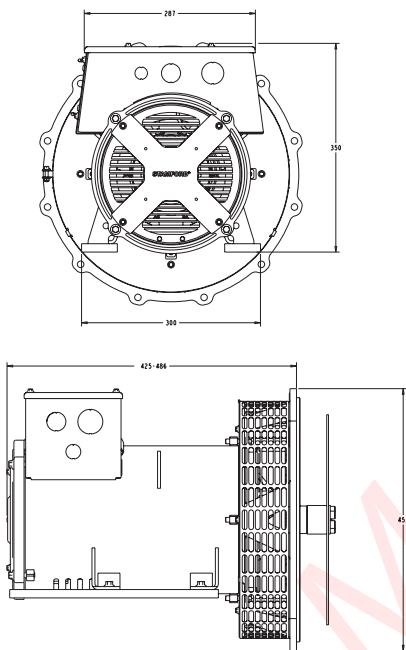


Engineered with you in mind

You told us what you looked for in an alternator and we listened. With the new **STAMFORD S0 & S1** we have gone back to the drawing board and engineered the most user-friendly alternators on the market.

- 20% quicker assembly time
- Adaptable feet for zero re-engineering
- Leading compactness
- Guaranteed STAMFORD quality





MODEL	S0	S1
Ratings at 50Hz (kVA)	7.5 - 30	35 - 62.5
Ratings at 60Hz (kVA)	9 - 36	42 - 75
Specifications		
Voltage Range (@50Hz, 3 Phase)	400/415	400/415
Voltage Range (@60Hz, 3 Phase)	480	480
Poles	4	4
Technology	Wire Wound	Wire Wound
AVR	Analogue (AS540)	Analogue (AS540)
Voltage Sensing	2 Phase	2 Phase
Bearing Arrangement	Single	Single
SAE Adaptors	3, 4, 5	3, 4, GM
Terminals	12	12
Insulation Class	H	H
Excitation System	Self Exciting	Self Exciting
Ingress Protection	IP23	IP23
Optional Features		
Excitation System	Auxiliary Winding*	Auxiliary Winding
Output Configurations	1 Phase Reconnection	1 Phase Reconnection
Environmental Protection	Anti-Condensation Heater	Anti-Condensation Heater
Flexible Foot Mounting	S0L1: 132-160mm	S1L2: 180-225mm
	S0L2: 160-180mm	
Current Transformers	3**	3
Designed For		
Standby Power	✓	✓
Telecommunications	✓	✓
Construction	✓	✓
Combined Heat & Power	✓	✓
Critical Protection & UPS	✓	✓
Continuous Power	✓	✓
Prime Movers		
Diesel Engine	✓	✓
Gas Engine	✓	✓

*Auxiliary Winding not available for 7.5 to 15 kVA

** CTs are not offered on S0L1

**NOW WITH
3 YEARS
WARRANTY**

Benefits to you

QUALITY

- Lighter and more compact than previous alternators
- High quality STAMFORD design and manufacture
- Robust steel and cast iron exterior

ASSEMBLY

- Quick and easy generator set assembly
- Up to 20% reduction in generator set assembly time
- Easily accessible adaptor, feet and terminal box

COMPATABILITY

- Zero re-engineering of generator set base when switching alternator brands
- Variety of SAE options to fit all major engines
- Convertible from 50 Hz to 60 Hz and vice-versa

PERFORMANCE

- Performs in all environments
- Every alternator tested for declared performance before despatch
- Enhanced motor starting capability without increasing length

RELIABILITY

- Designed to perform for a minimum of 20,000 hours
- All componentry subjected to 9,000 hours of highly accelerated life testing
- Strict supplier selection and manufacturing standards

COMPLIANCE

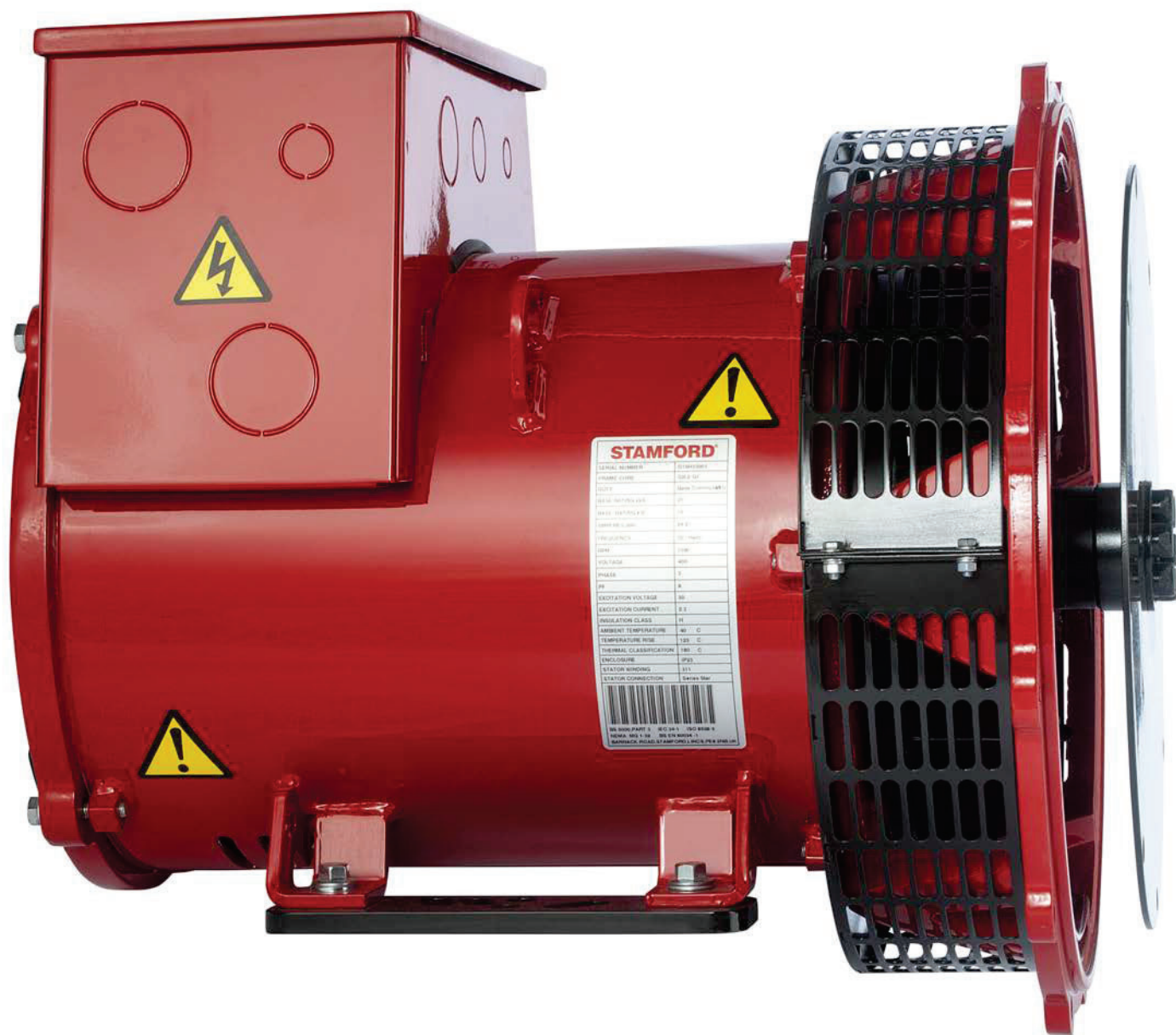
- Compliant with codes and standards globally
- IP23 protection as standard
- UL certified
- IEC and NEMA compliant

OPTIONS

- Auxiliary winding for improved motor starting capability
- Accessories include space heaters, diode failure detector and remote trimmer
- Choice of AVR position and centre height

**YOU ASKED.
WE LISTENED.**

**The new
STAMFORD®
S0 & S1**



Ratings

50Hz Single Phase

230V, 0.8PF, 4 pole, 1500rpm, wdg 05								
Model	Continuous 125/40		Continuous 105/40		Standby 150/40		Standby 163/27	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
S0L1-J1	7.5	6.0	6.8	5.5	8.0	6.4	8.3	6.6
S0L1-S1	10.0	8.0	9.1	7.3	10.7	8.6	11.0	8.8
S0L2-K1*	15.0	12.0	13.7	10.9	16.0	12.8	16.5	13.2
S0L2-U1*	20.0	16.0	18.2	14.6	21.3	17.0	22.0	17.6
S1L2-K1*	25.0	20.0	22.8	18.2	26.7	21.4	27.5	22.0
S1L2-R1*	30.0	24.0	27.3	21.8	32.0	25.6	33.0	26.4

* Auxiliary winding option available (wdg 705)

50Hz Three Phase

400V/415V, 0.8PF, 4 pole, 1500rpm, wdg 311								
Model	Continuous 125/40		Continuous 105/40		Standby 150/40		Standby 163/27	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
S0L1-D1	7.5	6.0	6.8	5.5	8.0	6.4	8.3	6.6
S0L1-H1	10.0	8.0	9.1	7.3	10.7	8.6	11.0	8.8
S0L1-L1	12.5	10.0	11.4	9.1	13.3	10.6	13.8	11.0
S0L1-P1	15.0	12.0	13.7	10.9	16.0	12.8	16.5	13.2
S0L2-F1*	17.5	14.0	15.9	12.7	18.7	15.0	19.3	15.4
S0L2-G1*	20.0	16.0	18.2	14.6	21.3	17.0	22.0	17.6
S0L2-M1*	25.0	20.0	22.8	18.2	26.7	21.4	27.5	22.0
S0L2-P1*	30.0	24.0	27.3	21.8	32.0	25.6	33.0	26.4
S1L2-J1*	35.0	28.0	31.9	25.5	37.5	30.0	38.5	30.8
S1L2-K1*	40.0	32.0	36.4	29.1	42.6	34.1	44.0	35.2
S1L2-N1*	45.0	36.0	41.0	32.8	48.0	38.4	49.5	39.6
S1L2-R1*	50.0	40.0	45.5	36.4	53.3	42.6	55.0	44.0
S1L2-Y1*	62.5	50.0	56.9	45.5	66.6	53.3	68.8	55.0

* Auxiliary winding option available (wdg 711)

60Hz Single Phase

240V, 0.8PF, 4 pole, 1800rpm, wdg 06								
Model	Continuous 125/40		Continuous 105/40		Standby 150/40		Standby 163/27	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
S0L1-J1	9.0	7.2	8.1	6.5	9.5	7.6	9.8	7.8
S0L1-S1	12.0	9.6	10.8	8.6	12.7	10.2	13.1	10.5
S0L2-G1*	14.5	11.6	13.1	10.5	15.4	12.3	15.8	12.6
S0L2-M1*	19.3	15.4	17.4	13.9	20.5	16.4	21.2	16.9
S0L2-U1*	24.0	19.2	21.7	17.4	25.6	20.5	26.4	21.1
S1L2-G1*	27.0	21.6	24.4	19.5	28.6	22.9	30.0	24.0
S1L2-H1*	29.0	23.2	26.2	21.0	30.7	24.6	31.9	25.5
S1L2-K1*	33.5	26.8	30.4	24.3	35.6	28.4	36.9	29.5
S1L2-N1*	36.5	29.2	33.0	26.4	38.6	30.9	40.6	32.4

* Auxiliary winding option available (wdg 706)

60Hz Three Phase

480V, 0.8PF, 4 pole, 1800rpm, wdg 311								
Model	Continuous 125/40		Continuous 105/40		Standby 150/40		Standby 163/27	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
S0L1-D1	9.0	7.2	8.2	6.6	9.6	7.7	10.0	8.0
S0L1-H1	12.0	9.6	10.9	8.7	12.8	10.2	13.2	10.6
S0L1-L1	15.0	12.0	13.7	11.0	16.0	12.8	16.5	13.2
S0L1-P1	18.0	14.4	16.4	13.1	19.2	15.4	19.8	15.8
S0L2-F1*	21.0	16.8	19.1	15.3	22.4	17.9	23.1	18.5
S0L2-G1*	24.0	19.2	21.8	17.4	25.6	20.5	26.4	21.1
S0L2-M1*	30.0	24.0	27.3	21.8	32.0	25.6	33.0	26.4
S0L2-P1*	36.0	28.8	32.8	26.2	38.4	30.7	39.6	26.4
S1L2-J1*	42.0	33.6	38.2	30.6	45.0	36.0	46.2	30.8
S1L2-K1*	48.0	38.4	43.7	35.0	51.2	41.0	52.8	35.2
S1L2-N1*	54.0	43.2	49.1	39.3	57.6	46.1	59.4	39.6
S1L2-R1*	60.0	48.0	54.6	43.7	64.0	51.2	66.0	52.8
S1L2-Y1*	75.0	60.0	68.2	54.6	80.0	64.0	82.5	55.0

* Auxiliary winding option available (wdg 711)

NOW WITH
3 YEARS
WARRANTY

The new
STAMFORD®
S0 & S1





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