



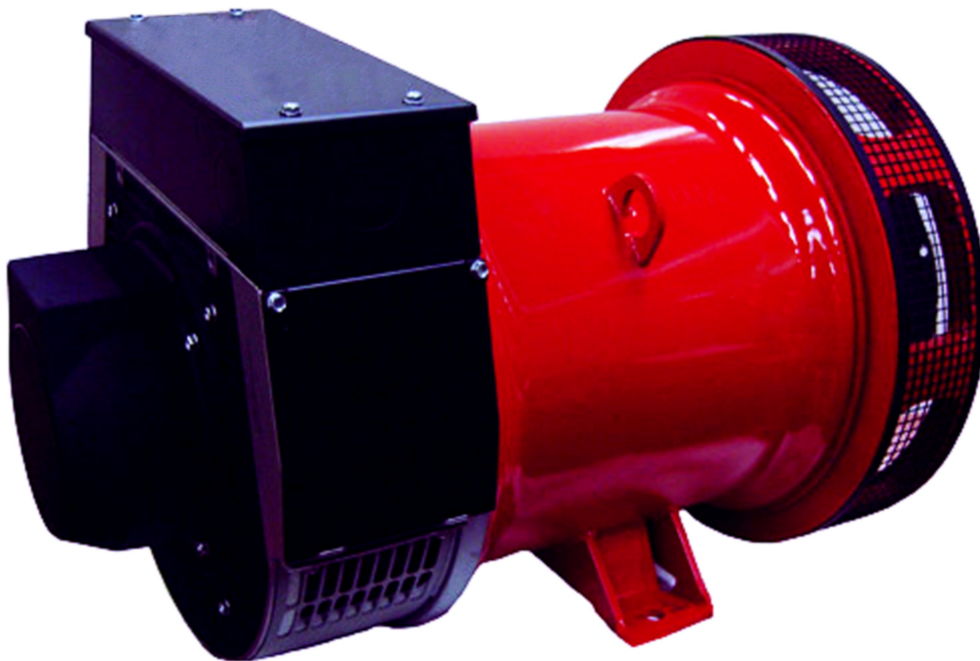
STAMFORD[®]

P0/P1 Ranges

There for you™



**Generator
Technologies**



From 7.5 to 42.5 kVA



Advanced Design

The new P0/P1 will replace the existing STAMFORD BC & UC224C products. The STAMFORD P0/P1 ranges have been developed to meet our customers' need for a standardised global product.

State-of-the-art design techniques have enabled a modular approach, providing enhanced specification and upfit flexibility.

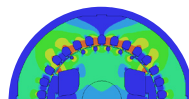
Features

- Up-fittable modular non-standard options
- Design for Assembly (DFA)
- More kVA nodes
- Excitation Boost System (EBS)
- IP23 as standard
- UL compliant

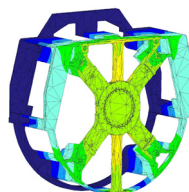
Benefits

- Reduced gen-set assembly time
- Better engine alignment with ratings
- Up-fittable motor start / short circuit maintenance capability
- Improved serviceability
- Global service and parts availability

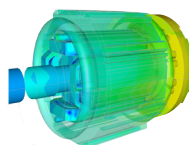
1. Excitation Boost System can be fitted in the factory or at a later date, by the customer
2. New non drive end and excitor designs provide easy access to diodes for service
3. Improved drive end access allows gen-set assembly without removing the rotor



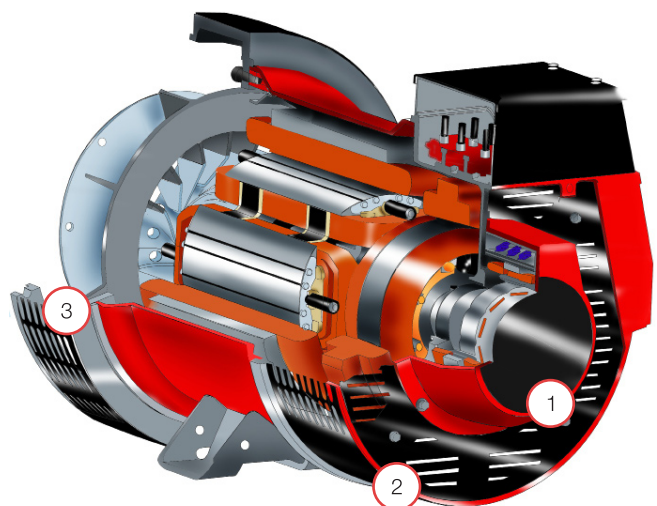
Electro-Magnetic Finite Element Analysis (FEA) facilitates efficient modelling of flux density.



Structural FEA to optimise geometry of Non Drive End (NDE) bracket and fan housing reduces assembly and service times.



Computational Fluid Dynamics (CFD) used to improve cooling by enabling increased fan efficiency and better air flow through the generator.

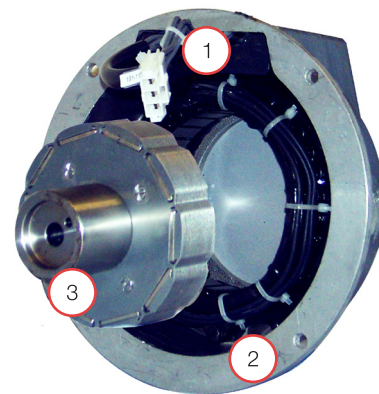
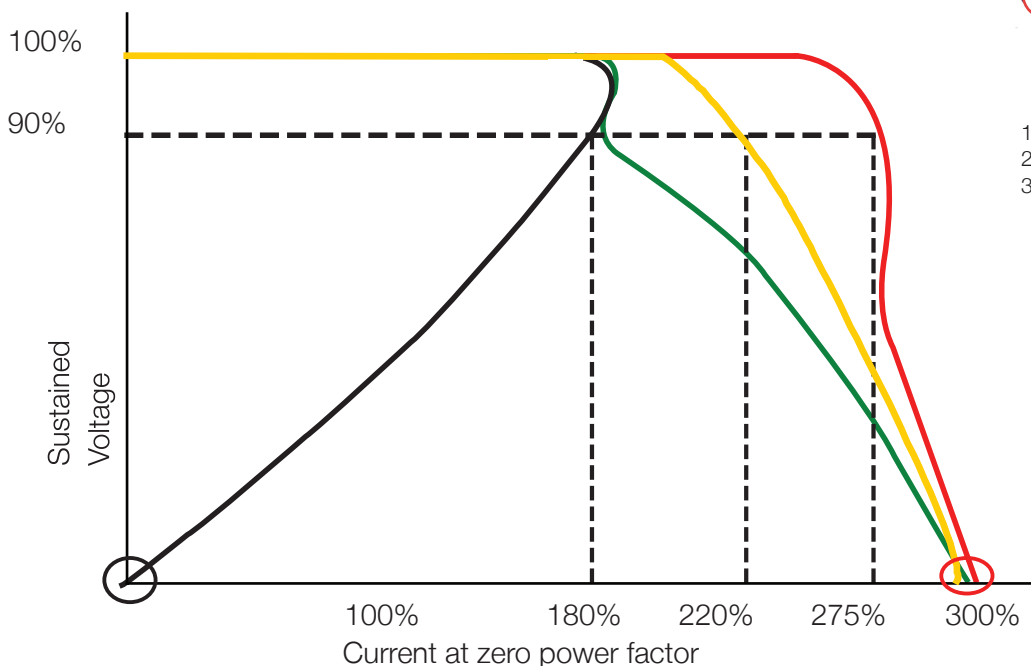




Excitation Boost System

The EBS has been designed to provide 300% short circuit current and improved motor starting. Supplied as a single module, EBS can be specified at point of sale or supplied as an upfit part from our Global Aftermarket Parts Departments.

Comparative Overload Characteristics



1. Excitation Boost Controller (EBC)
2. Excitation Boost Stator (EBS)
3. Excitation Boost Generator Rotor

Base Machine: Limited motor starting and no short circuit maintenance

Auxiliary Winding: Limited motor starting and 300% maximum rating short circuit maintenance

PMG: Improved motor starting & 300% maximum rating short circuit maintenance (not available for smaller machines)

EBS: Further improved motor starting and 300% maximum rating short circuit maintenance

P0/P1 Ranges: 4 Pole Ratings (kVA)

Rating/ Ambient	50 Hz		60 Hz		
	Base 40°C		Base 40°C		
	Application/ Temp rise		Continuous 125°C		
Winding	311	05	311	06	06
Phase	Three	Single	Three	Single	Single
pf	0.8	0.8	0.8	0.8	1.0
Voltage	380 - 415V	220 - 240V	480V	240V	240V
PI044D	7.5	5.0	9.4	6.3	7.5
PI044E	10.0	6.7	12.5	8.4	10.0
PI044F	12.5	8.4	15.6	10.5	12.5
PI044G	15.0	10.1	18.8	12.6	15.0
PI044H	17.5	11.7	21.9	14.7	17.5
PI144D	20.0	13.6	25.0	17.0	21.0
PI144E	25.0	17.0	31.3	21.3	25.0
PI144F	27.5	18.7	34.4	23.4	27.5
PI144G	30.0	20.4	37.5	25.5	30.0
PI144H	35.0	23.8	43.8	29.8	35.0
PI144J	40.0	27.2	50.0	34.1	40.0
PI144K	42.5	28.5	55.0	37.5	42.0

P0/P1 Ranges: 2 Pole Ratings (kVA)

Rating/ Ambient	50 Hz		60 Hz	
	Base 40°C		Base 40°C	
	Application/ Temp rise		Continuous 125°C	
Winding	311	05	311	06
Phase	Three	Single	Three	Single
pf	0.8	0.8	0.8	0.8/1.0
Voltage	380 - 415V	220 - 240V	480V	220 - 240V
PI042D	12.5	8.4	14.6	9.4
PI042E	15.0	10.1	17.6	11.3
PI042F	17.5	11.7	20.1	12.9
PI042G	20.0	13.4	23.3	15.0
PI142D	25.0	16.8	26.5	17.0
PI142E	27.5	18.4	32.9	21.1
PI142F	32.0	21.4	37.1	23.8
PI142G	37.5	25.1	42.4	27.2
PI142H	40.0	26.8	49.8	32.0
PI142J	45.0	30.2	53.0	34.0

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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