

NEWAGE[®]
STAMFORD[®]
AvK[®]

PowerPortfolio

The ultimate alternator range

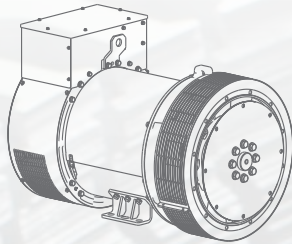


Powering the world with confidence since 1904

The Ultimate Range

NEWAGE®

10 - 300kVA

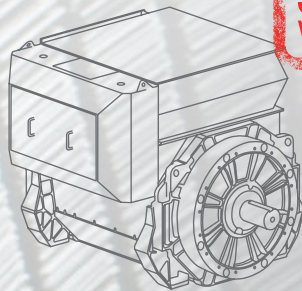


Compact yet powerful, the NEWAGE® range of three-phase, four-pole synchronous AC alternators of brushless design are the latest addition to the STAMFORD® and AvK® brand portfolio.

NEWAGE® includes fit for market alternators, up to 300kVA Low Voltage, whilst applying the same STAMFORD® and AvK® brand quality standards, global support team and established service network. The range focuses on a compact design to maximise power density and space saving, providing optimized and reliable power for standby and other applications.

STAMFORD®

7.5 - 5,000kVA



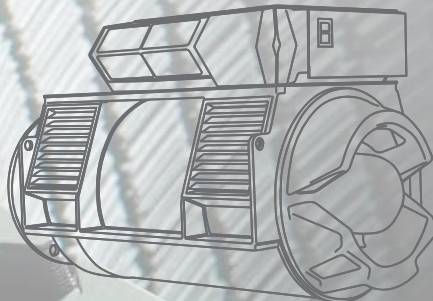
**3 YEAR
WARRANTY**

S-Range

Utilising wire-wound technology and with an output extending from 7.5 to 5,000kVA, genuine STAMFORD® alternators are designed for delivering superior efficiencies in marine, oil and gas auxiliary, UPS, telecoms, CHP, construction and other continuous or standby power applications. STAMFORD® alternators are available with a choice of SAE adaptors to ensure easy coupling to a wide range of prime movers. All STAMFORD® S-Range is fitted with CoreCooling™ Technology.

AvK®

600 - 11,200kVA



With a robust bar wound configuration, AvK® alternators are robustly engineered products up to 11,200kVA, specifically designed to meet the challenges of the most arduous applications and environments - be it in extraction of oil and gas, coal and minerals, critical marine power to tankers and container vessels. Our extensive experience and knowledge gathered from a large number of diverse alternator installations worldwide provides expertise in offering integrated design solutions that helps our customers compete more successfully throughout the world.



Prime Movers

Designed to couple with: Diesel Engine, Gas Engine
 Diesel Engine compatibility: all brands and nodes

Common Features

Technology: Wire wound
 Protection: IP23 as standard
 Open ventilated construction

Designed For

Prime Power and Standby

Classifications

Compatible with Industrial Standards:

**Prime Movers**

Designed to couple with: Diesel Engine, Gas Engine, Steam Turbine, Gas Turbine
 Diesel Engine compatibility: all brands and nodes

Common Features

Technology: Wire wound
 Protection: IP23 as standard
 Open ventilated construction

Designed For

Prime Power, Standby, Marine, Oil and Gas Auxiliary, Mining, Critical Protection and UPS, Combined Heat and Power, Telecoms, Mobile Construction

Classifications

Compatible with Industrial Standards:



Compatible with Marine Classifications:

**Prime Movers**

Designed to couple with: Diesel Engine, Gas Engine, Steam Turbine, Gas Turbine
 Diesel Engine compatibility: all brands and nodes

Common Features

Technology: Bar wound
 Protection: IP23 as standard with higher IP ratings available as options
 Totally enclosed construction
 Highly configurable design

Designed For

Prime Power, Power Plants, Marine, Oil and Gas, Mining

Classifications

Compatible with Industrial Standards:

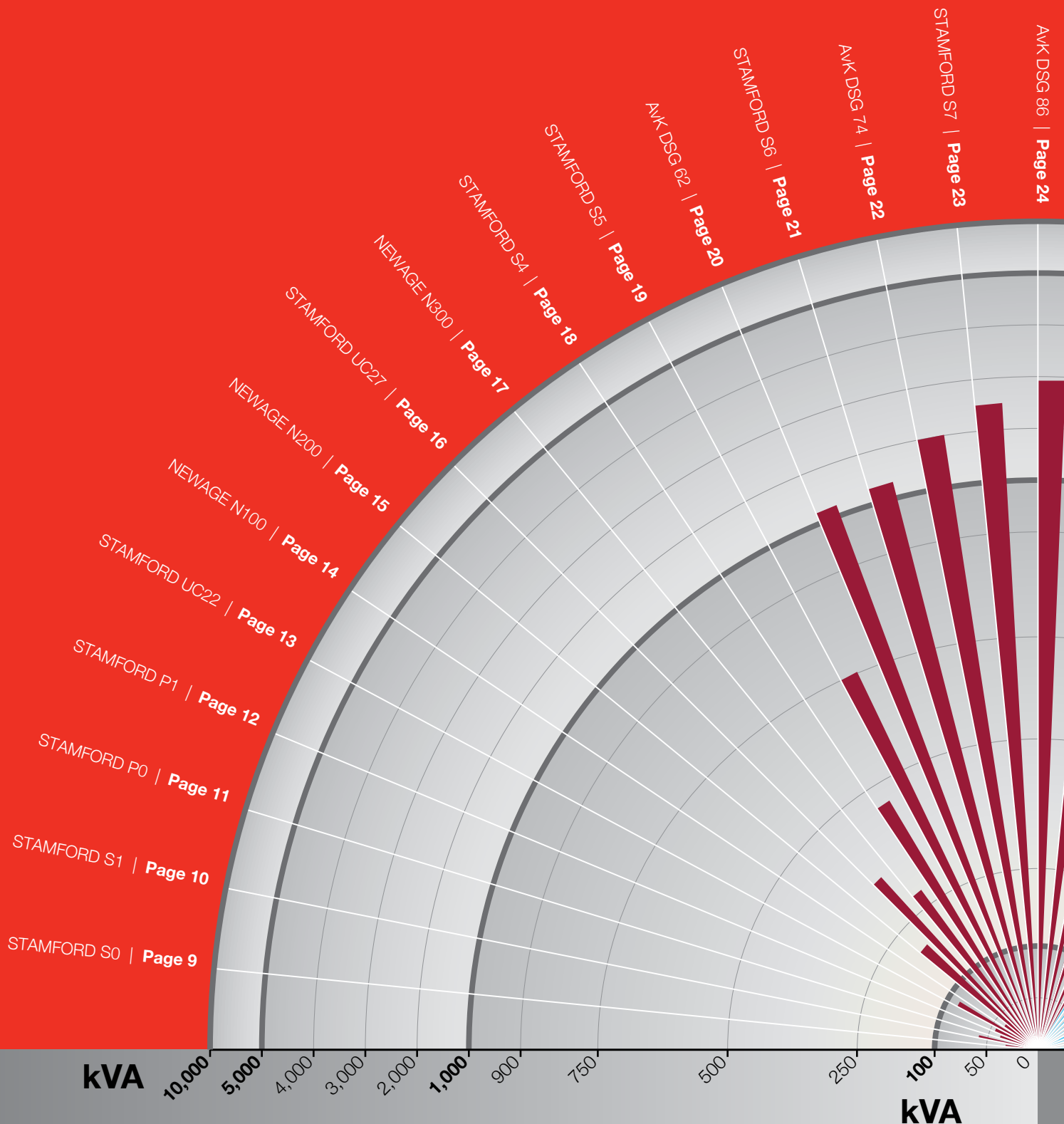


Compatible with Marine Classifications:



Quick Alternator Selector

Use the Quick Alternator Selector to determine which
NEWAGE, STAMFORD or AvK alternator you need for your power project.



1 Determine your power requirements and find the desired
kVA or kW along the axis

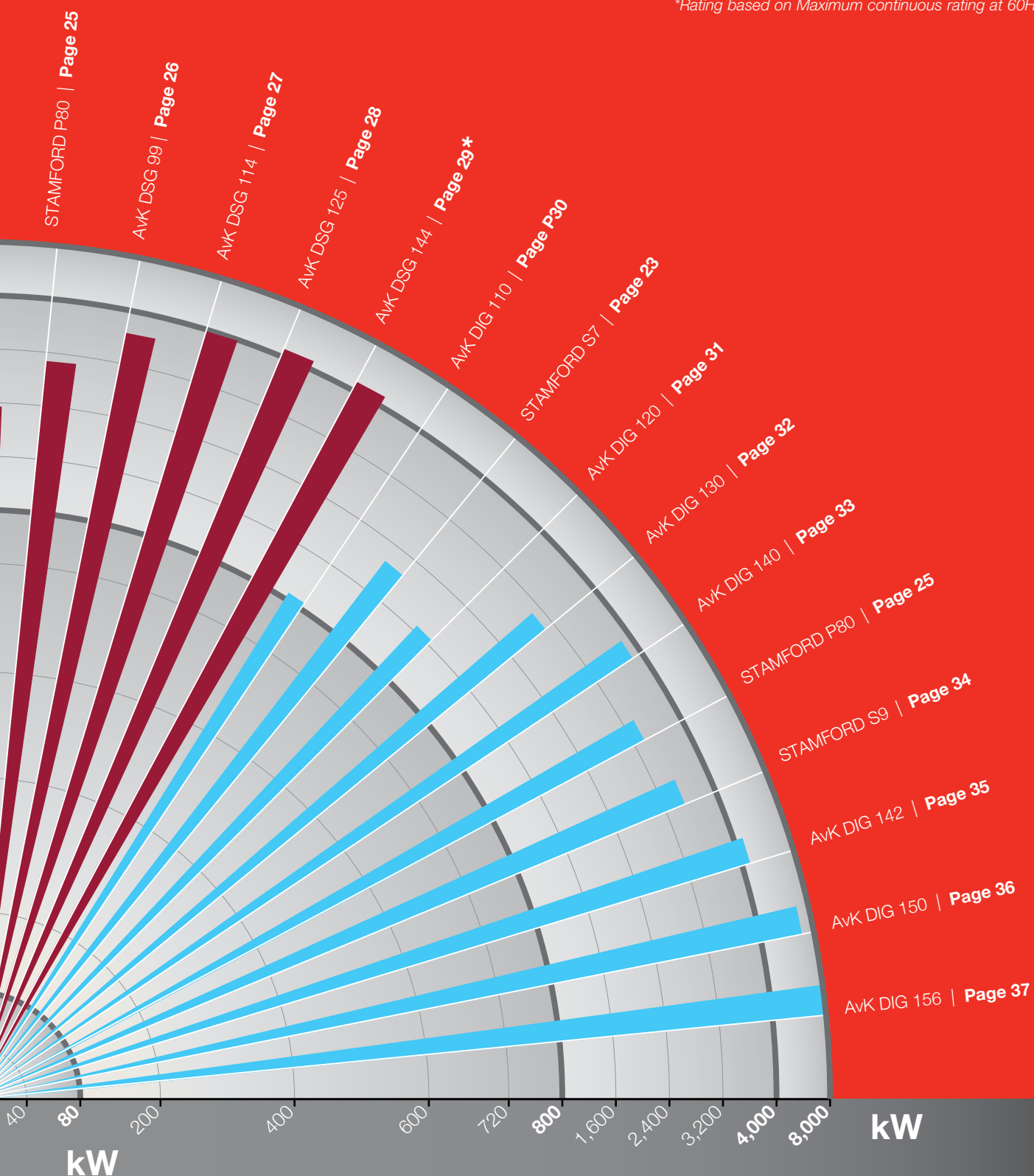
2 Follow the curve until you find a alternator that matches
your power and voltage requirement

Key

- Low Voltage
- Medium/High Voltage

Ratings based on Maximum continuous rating at 50Hz

*Rating based on Maximum continuous rating at 60Hz



3 Read the label of your selected alternator to see which page it is featured on for more information

To attain further technical specifications of your selected alternator, visit the NEWAGE | STAMFORD | AvK Product Selector at www.stamford-avk.com/productselector

Customer Support Excellence. Every™ Time.

Industry Leading Technical Support

It's what we do

From pre-sales application support all the way through to engineers servicing your NEWAGE, STAMFORD or AvK alternators, we're there for you. For over 100 years and counting, Cummins Generator Technologies prides itself on the proven support we've delivered for our customers, globally.



Selecting the right alternator for the right application

In today's complex world our goal is to make your life simpler - by using our unrivaled experience to provide solutions to your challenges. With a rich, proven history of helping our customers become efficient, we understand the performance requirements that each application and operating environment demands. Our knowledgeable, experienced applications engineers align individual customers' power needs with the most suitable alternator specification.

For applications engineering support or training contact
applications@cummins.com

Application Engineering Training

Cummins Generator Technologies offers a wide range of alternator application training courses to help our customers in the design and operation of our products.

Our training packages can be fully customized to meet your training requirements. We are completely flexible and can adapt any of our training courses to ensure we deliver material that suits your business objectives. From the very basics of electrical fundamentals to complex alternator sizing we will aim to deliver training to meet the specified requirements of the delegates.

Our training courses can be conducted in-house or locally at customer premises.

Global Customer Service

One Global Service Network

Our professional engineers are widely recognised in the industry as experts in electrical, electronic and mechanical engineering. They in turn are supported by a common worldwide spares and service network for all NEWAGE, STAMFORD and AvK alternators.

What that means to you

- Experienced "Factory" engineers and trained local Dealer network to respond immediately to rectify customer onsite problems
- Quotations for inspection, commissioning and refurbishment of alternators at the customer site
- AVR & accessory set-up on site
- NEWAGE, STAMFORD and AvK parts identification
- Extensive Aftermarket network distribution for genuine NEWAGE, STAMFORD and AvK parts
- Extensive aftermarket distribution for genuine NEWAGE, STAMFORD and AvK parts
- Quotations for extended warranty
- Quotations for Genset installation and coupling alignment checks

Service Training

Product familiarity will ensure maximum productivity and optimum use of the alternator. Our Service Training teams offer service training courses for engineers, operators and service and support staff. Each course is individually tailored to suit the needs of the customer, the generator set builder or the end-user. Product familiarisation courses, with a choice of training modules - including alternator control systems, applications, trouble-shooting, maintenance or other specific requirements - are also available. For further information on service training contact stamford-avkservicetraining@cummins.com

For support on service events and inquiries contact

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

Aftermarket Parts

For genuine Aftermarket Parts, visit:

www.stamford-avk.com/parts

Accessories

Current Sensing Kit

Assists the AVR to achieve accurate voltage regulation when supplying loads at the end of long cable runs.

Separate Voltage Trimmer

Provides remote fine adjustment of the alternator output voltage.

Paralleling Kit

Quadrature Droop provides a drooping characteristic, when paralleling alternators, ensuring the load is shared in proportion to the alternator outputs.

RFI Suppressor Kit

Reduces the radiated RFI signal from the alternator to enable compliance with various high level EMC standards.

Excitation Loss Module

Detects loss of excitation, not easily detectable by other means, when alternators are running in parallel. This unit switches a single pole change over contact which can be incorporated into an external protection system.

Manual Voltage Regulator

Controls the alternator output voltage manually under emergency conditions. This must be in conjunction with the PMG type control system.

Frequency Detection Module

Senses frequency, and hence rotational speed, can be used to disengage the starter when engine fires, and to shut down the engine in event of overspeed.

Power Factor Controller

Controls and maintains a required power factor condition whilst running in parallel with a mains supply. This unit also incorporates a voltage matching facility for use with basic automatic synchronising equipment.

Alternator Protection Module

Detects overload conditions by measuring voltage discrepancies in the alternator phase voltages. On fault detection, the unit switches a change over contact; this could be incorporated to trip a circuit breaker, stop the engine, or de-excite the alternator.

Diode Failure Detector

On detection of a failed rotating diode this module switches a change over contact. This could either trigger an alarm or automatically shut down the set.

Excitation Circuit Breaker

Circuit breaker which is tripped by a signal from the MX322 AVR overvoltage detection circuit.

Dual AVR System

Used for manual switching between two AVRs where the specification calls for the provision of a backup AVR.



AVRs

NEWAGE | STAMFORD | AvK offer a wide selection of AVR's (Automatic Voltage Regulator) which are suitable for use with many of the products within the alternator range. The AVR is the heart of the alternator and maintains the steady state output voltage within close limits during operation. The AVR's include the latest technology to provide the highest level of performance during all operating conditions.

All AVR's are encapsulated to provide protection against moisture, salt and sand in the atmosphere and mounted on anti-vibration mounts for mechanical protection from engine vibration.

Genuine NEWAGE | STAMFORD | AvK AVR's Maximise Performance

NEWAGE | STAMFORD | AvK offer a complete range of analogue and digital AVR's designed to match your application.

Only genuine NEWAGE, STAMFORD and AvK AVR's should be used to avoid expensive repair costs and under performance of your NEWAGE, STAMFORD or AvK alternator. To find out more please email parts.enquires@cummins.com



A Digital STAMFORD and AvK AVR, the DM110

AVR	Type	Excitation Method	Voltage Regulation
AS440	Analogue	Self-Excited	+/-1.0%
AS540	Analogue	Self-Excited/Aux Winding	+/-1.0%
AS480	Analogue	Self-Excited + EBS	+/-1.0%
MX341	Analogue	PMG	+/-1.0%
MX322	Analogue	PMG	+/-0.5%
DM110	Digital	PMG/Aux. Winding	+/-0.25%
DECS 100	Digital	PMG/Aux. Winding	+/-0.25%
DECS 250	Digital	PMG/Aux. Winding	+/-0.25%
UNITROL 1010	Digital	PMG/Aux. Winding	+/-0.2%
UNITROL 1020	Digital	PMG/Aux. Winding	+/-0.2%
DM710	Digital	Self-Excited	+/-1.0%
DM730	Digital	Self-Excited	+/-1.0%

EBS – Excitation Boost System

PMG – Permanent Magnet Generator

The Right Technology

STAMFORD®**S0**

Model	S0
Maximum continuous rating at 50Hz (kVA)	30
Maximum continuous rating at 60Hz (kVA)	36

Specifications	
Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2 Phase
Bearing Arrangement	Single
SAE Adaptors	3, 4, 5
Terminals	12
Material Insulation Class	H
Excitation System	Self Exciting
Ingress Protection	IP23

Optional Features	
Excitation System	Auxiliary Winding on S0L2 Models
Output configurations	1 phase re-connectable
Environmental protection	Anti-condensation Heaters
	Epoxy Gel Coat

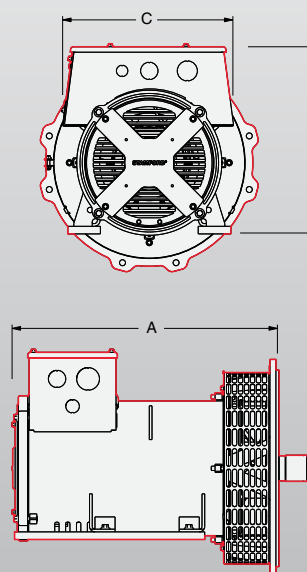
Designed For	
Oil & Gas Auxiliary	●
Telecommunications	●
Mobile Construction	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	



DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



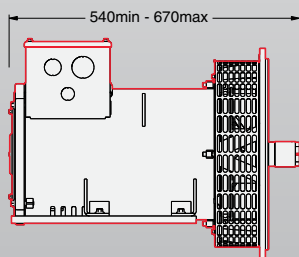
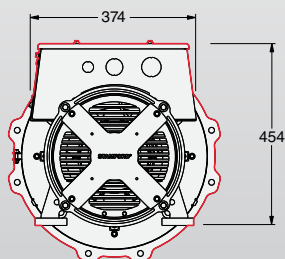
Model	A	B	C
S0L1	405-485	350	314
S0L2	495-545	405	345

**3 YEAR
WARRANTY**



DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



S1

STAMFORD®

Model	S1
Maximum continuous rating at 50Hz (kVA)	62.5
Maximum continuous rating at 60Hz (kVA)	75

Specifications	
Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2 Phase
Bearing Arrangement	Single
SAE Adaptors	3, 4
Terminals	12
Material Insulation Class	H
Excitation System	Self Exciting
Ingress Protection	IP23

Optional Features	
Excitation System	Auxiliary Winding
Output configurations	1 phase re-connectable
Environmental protection	Anti-condensation Heaters
	Epoxy Gel Coat

Designed For	
Oil & Gas Auxiliary	●
Telecommunications	●
Mobile Construction	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	

3 YEAR WARRANTY

STAMFORD®**P0****Model**

Maximum continuous rating at 50Hz (kVA)
Maximum continuous rating at 60Hz (kVA)

P0

17.5
25

Specifications

Voltage Range	380-600
Poles	2, 4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	2, 3, 4, 5
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features

Excitation System	EBS
Bearing Arrangement	Double
Output configurations	1 phase re-connectable
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

Designed For

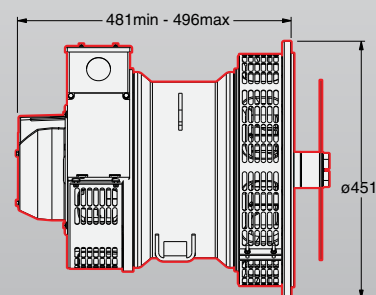
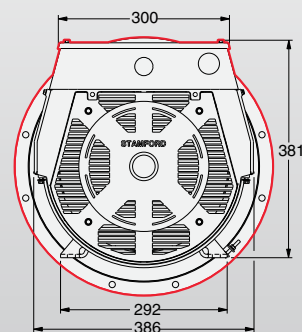
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Telecommunications	●
Mobile Construction	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	

**DIMENSIONS**

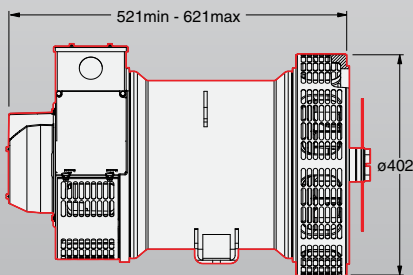
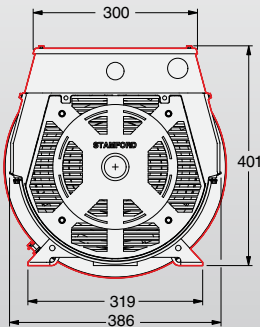
Drawings represent standard design
All dimensions in millimetres (mm)



**P1****STAMFORD®**

DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



Model	P1
Maximum continuous rating at 50Hz (kVA)	42.5
Maximum continuous rating at 60Hz (kVA)	55

Specifications	
Voltage Range	380-600
Poles	2, 4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	2, 3, 4
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features	
Excitation System	EBS
Bearing Arrangement	Double
Output configurations	1 phase re-connectable
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

Designed For	
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Telecommunications	●
Mobile Construction	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	

STAMFORD®**UC22**

Model	UC22
Maximum continuous rating at 50Hz (kVA)	85
Maximum continuous rating at 60Hz (kVA)	103.8

Specifications

Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	1, 2, 3, 4
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features

Excitation System	PMG
Bearing Arrangement	Double
Ingress Protection	IP23 Air Filters
Output configurations	1 phase re-connectable
Voltage sensing	3-Phase sensing
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

Designed For

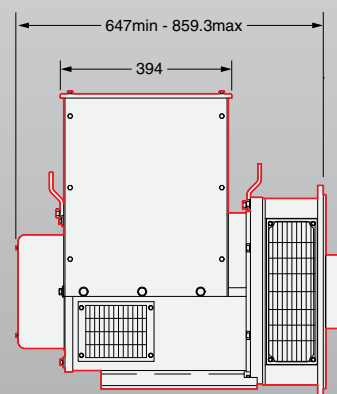
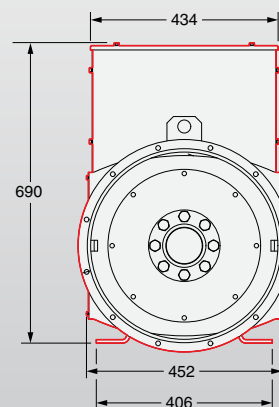
Grid Code Compatible	●
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Telecommunications	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●

**DIMENSIONS**

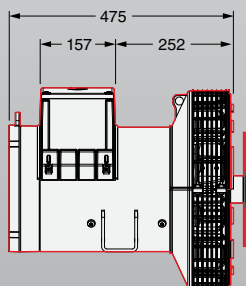
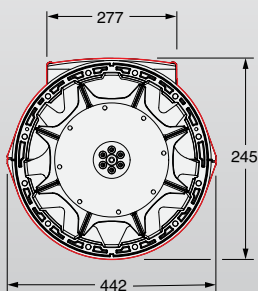
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



N100

NEWAGE®

Model	N100
Maximum continuous rating at 50Hz (kVA)	20
Maximum continuous rating at 60Hz (kVA)	26

Specifications	
Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 4, 5
Terminals	6
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23

Designed For	
Marine Auxiliary	
Oil & Gas Auxiliary	
Telecommunications	
Mobile Construction	
Combined Heat & Power	
Critical Protection & UPS	
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

NEWAGE®**N200**

Model	N200
Maximum continuous rating at 50Hz (kVA)	200
Maximum continuous rating at 60Hz (kVA)	250

Specifications

Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 2, 3
Terminals	6
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23

Optional Features

Environmental protection	Anti-condensation Heaters
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Designed For

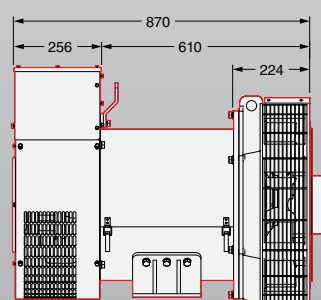
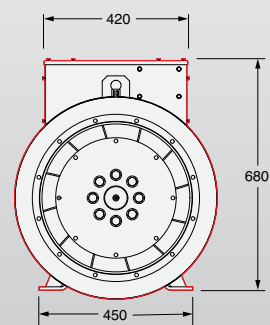
Oil & Gas Auxiliary	
Telecommunications	
Mobile Construction	
Combined Heat & Power	
Critical Protection & UPS	
Continuous Power & Standby	●

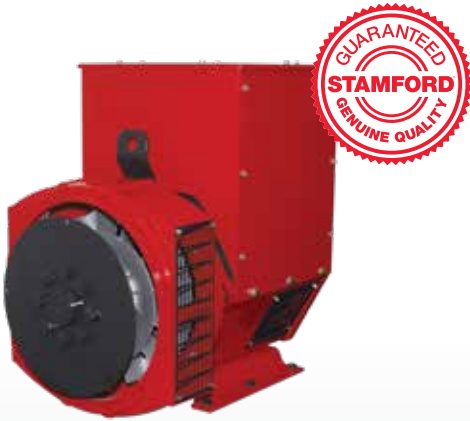
Prime Movers

Diesel Engine	●
Gas Engine	●

**DIMENSIONS**

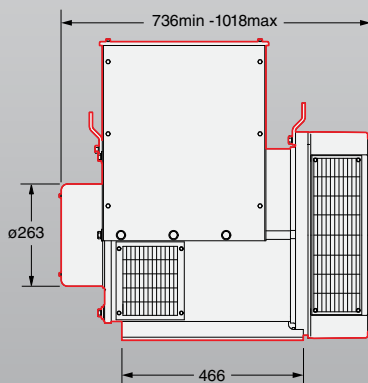
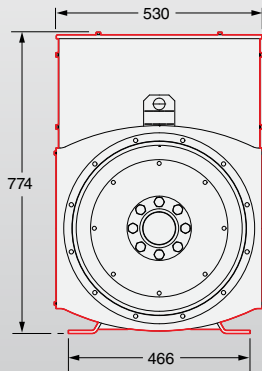
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



UC27

STAMFORD®

Model	UC27
Maximum continuous rating at 50Hz (kVA)	250
Maximum continuous rating at 60Hz (kVA)	312.5

Specifications	
Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	1, 2, 3
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features	
Excitation System	PMG
Bearing Arrangement	Double
Ingress Protection	IP23 Air Filters
Output configurations	1 phase re-connectable
Voltage sensing	3-Phase sensing
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

Designed For	
Grid Code Compatible	●
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Telecommunications	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

NEWAGE®**N300**

Model	N300
Maximum continuous rating at 50Hz (kVA)	300
Maximum continuous rating at 60Hz (kVA)	362

Specifications

Voltage Range	380-480
Poles	4
Technology	Wire Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Single
SAE Adaptors	SAE 1, 2
Terminals	6
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23

Optional Features

Environmental protection	Anti-condensation Heaters
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Designed For

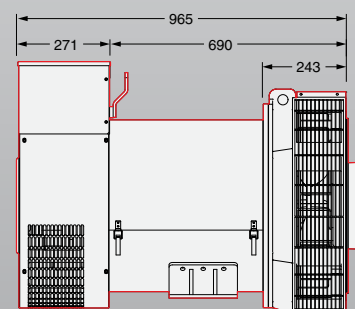
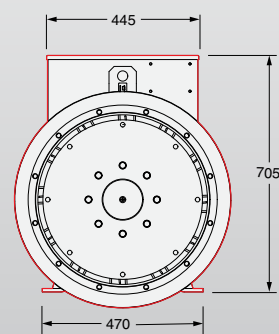
Oil & Gas Auxiliary	
Telecommunications	
Mobile Construction	
Combined Heat & Power	
Critical Protection & UPS	
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●

**DIMENSIONS**

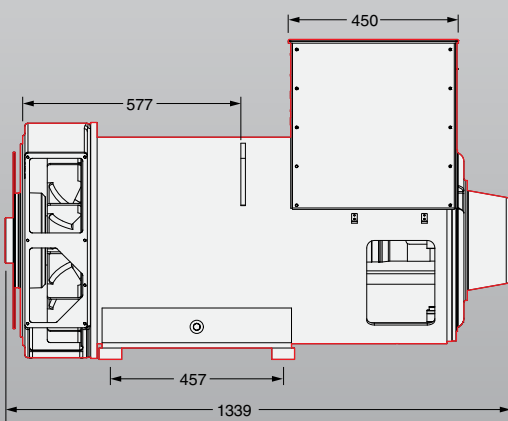
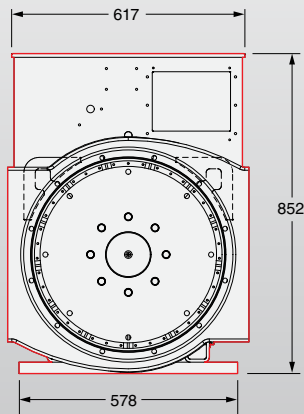
*Drawings represent standard design
All dimensions in millimetres (mm)*





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



**3 YEAR
WARRANTY**

S4

STAMFORD®

Model	S4
Maximum continuous rating at 50Hz (kVA)	450
Maximum continuous rating at 60Hz (kVA)	560

Specifications	
Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	0, 0.5, 1, 2, 3
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features	
Excitation System	PMG
Bearing Arrangement	Double
Ingress Protection	IP23 Air Filters
Output configurations	1 phase re-connectable
Voltage sensing	3-Phase sensing
AVR	Digital
Temperature monitoring	Winding RTDs
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters
Foot options	Adaptor Foot Flexible Foot

Designed For	
Grid Code Compatible	●
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

STAMFORD®**S5**

Model	S5
Maximum continuous rating at 50Hz (kVA)	750
Maximum continuous rating at 60Hz (kVA)	937

Specifications

Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	2-Phase
Bearing Arrangement	Single
SAE Adaptors	00, 0, 0.5, 1
Terminals	12
Material Insulation Class	H
Excitation System	Self exciting
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features

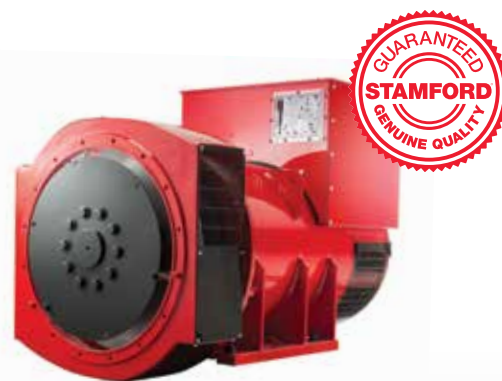
Excitation System	PMG
Bearing Arrangement	Double
Ingress Protection	IP23 Air Filters
Output configurations	3 phase re-connectable
Voltage sensing	3-Phase sensing
AVR	Digital
Temperature monitoring	Winding RTDs
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

Designed For

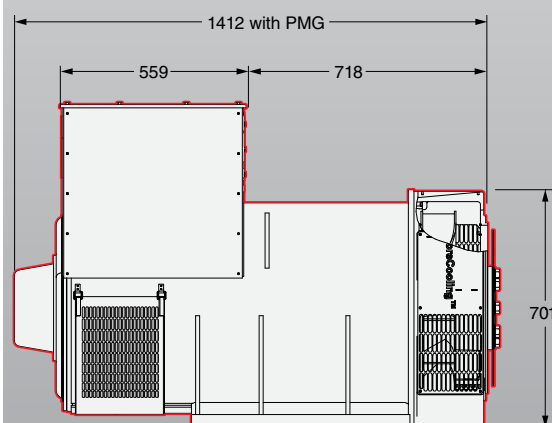
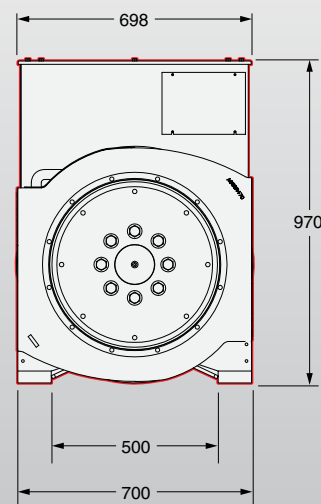
Grid Code Compatible	●
Marine Auxiliary	●
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●

**DIMENSIONS**

Drawings represent standard design
All dimensions in millimetres (mm)

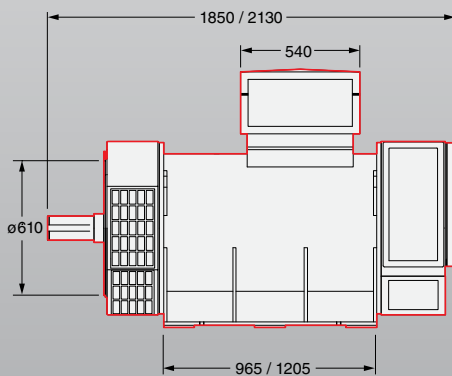
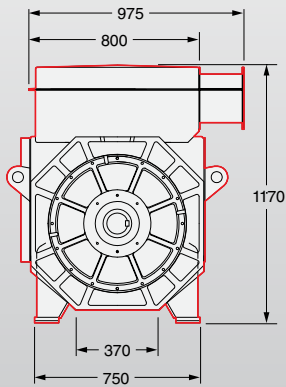


**3 YEAR
WARRANTY**



DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DSG 62

AvK®

Model	DSG 62
Maximum continuous rating at 50Hz (kVA)	1,100
Maximum continuous rating at 60Hz (kVA)	1,320

Specifications	
Voltage Range	400-690
Poles	4
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Grid Code Compatible	
Marine Auxiliary	●
Oil & Gas	●
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

650 - 1,320 kVA

STAMFORD®**S6**

Model	S6
Maximum continuous rating at 50Hz (kVA)	1,400
Maximum continuous rating at 60Hz (kVA)	1,695

Specifications

Voltage Range	380-690
Poles	4
Technology	Wire Wound
AVR	Analogue
Voltage sensing	3-Phase
Bearing Arrangement	Single
SAE Adaptors	0, 00, 1
Terminals	6
Material Insulation Class	H
Excitation System	PMG
Ingress Protection	IP23
Connection with other machines	Paralleling capability

Optional Features

Bearing Arrangement	Double
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44 Air Filters
AVR	Digital
Temperature monitoring	Winding RTDs
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters
Ingress Protection	IP44

Designed For

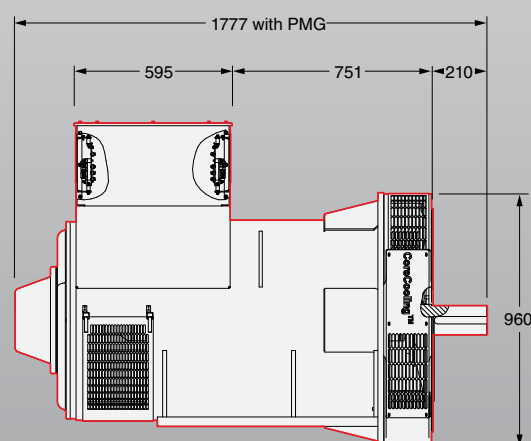
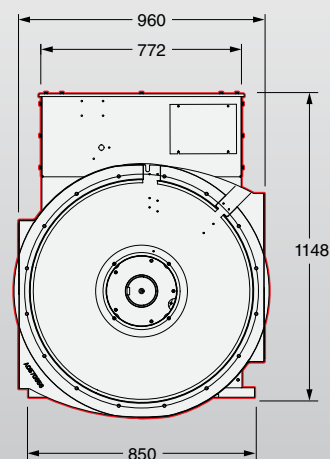
Grid Code Compatible	●
Marine Auxiliary	●
Oil & Gas	●
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●

**3 YEAR
WARRANTY**
**DIMENSIONS**

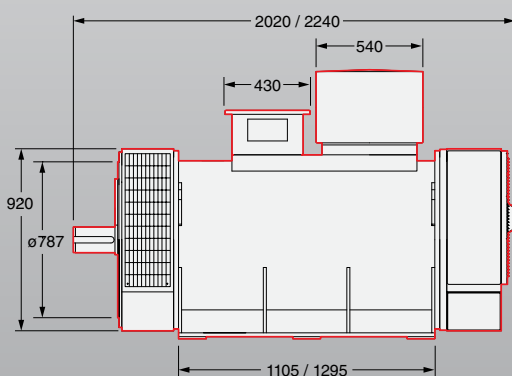
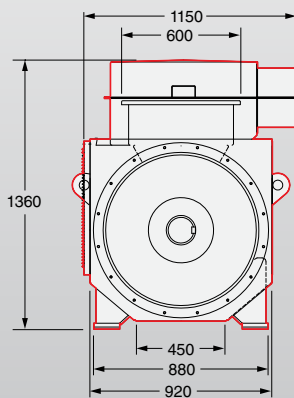
*Drawings represent standard design
All dimensions in millimetres (mm)*





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DSG 74

AvK®

Model	DSG 74
Maximum continuous rating at 50Hz (kVA)	2,000
Maximum continuous rating at 60Hz (kVA)	2,400

Specifications	
Voltage Range	400-690
Poles	4, 6, 8
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	
Grid Code Compatible	
Marine Auxiliary	●
Oil & Gas	●
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

600 - 2,400 kVA

STAMFORD®**S7**

Model	S7 LV	S7 HV
Maximum continuous rating at 50Hz (kVA)	2,500	1625
Maximum continuous rating at 60Hz (kVA)	3,000	-

Specifications

Voltage Range	380-690	10,500 - 11,000
Poles	4	4
Technology	Wire Wound	Form Wound
AVR	Analogue	Digital
Voltage sensing	2 Phase	3 Phase
Bearing Arrangement	Single	Double
SAE Adaptors	SAE 0	None
Terminals	6	4
Temperature Monitoring	-	Winding RTDs 2/phase
Material Insulation Class	H	H
Excitation System	PMG	DECS100/PMG
Ingress Protection	IP23	IP23
Connection with other machines	Paralleling capability	Paralleling capability

Optional Features

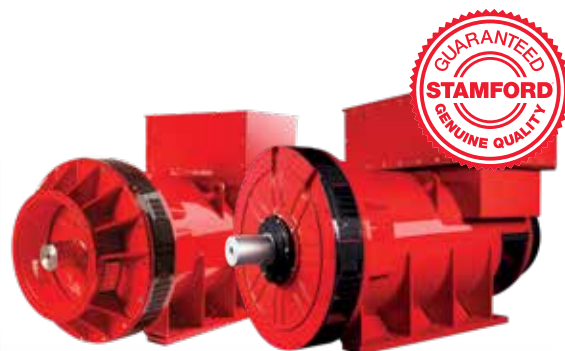
Bearing Arrangement	Double	Single
SAE Adaptors	SAE 00	SAE0, SAE 00
Ingress Protection	IP44 Terminal Box	-
	IP44	-
Voltage Sensing	3 Phase sensing	-
AVR	DECS150	-
Temperature Monitoring	Winding RTDs	Bearing RTD
	Thermistors	
Terminals	-	6 terminals, open starpoint
Environmental Protection	Anti- Condensation Heater	Anti- Condensation Heater
Foot options	Flexible Foot	-

Designed For

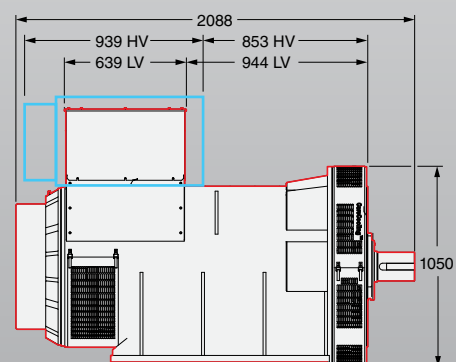
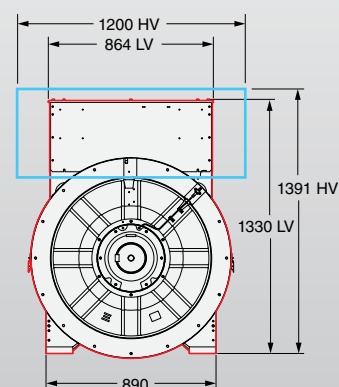
Power Plant	●	●
Grid Code Compatible	●	●
Marine Propulsion	●	
Marine Auxiliary	●	
Oil & Gas		
Oil & Gas Auxiliary	●	
Combined Heat & Power	●	●
Critical Protection & UPS	●	●
Continuous Power & Standby	●	●

Prime Movers

Diesel Engine	●	●
Gas Engine	●	●

**S7 LV****S7 HV****DIMENSIONS**

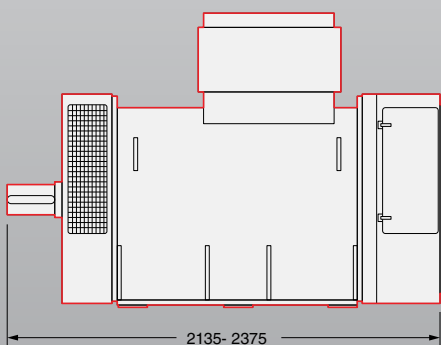
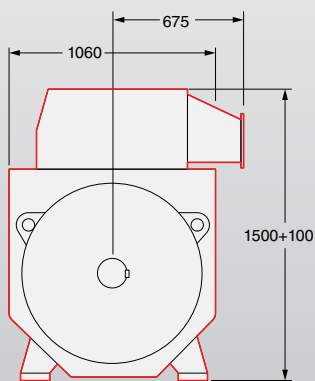
*Drawings represent standard design
All dimensions in millimetres (mm)*


**3 YEAR
WARRANTY**



DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DSG 86

AvK®

Model	DSG 86
Maximum continuous rating at 50Hz (kVA)	2,990
Maximum continuous rating at 60Hz (kVA)	3,408

Specifications	
Voltage Range	400-690
Poles	4, 6, 8, 10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	
Grid Code Compatible	●
Marine Propulsion	●
Marine Auxiliary	●
Oil & Gas	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	
Steam Turbine	

670 - 3,410 kVA

STAMFORD®**P80**

Model	P80 LV	P80 MV	P80 HV
Maximum continuous rating at 50Hz (kVA)	3,900	4,200	3,800
Maximum continuous rating at 60Hz (kVA)	4,400	5,100	4,700

Specifications

Voltage Range	380-690	3,300-4,160	6,000-13,800
Poles	4		
Technology	Wire Wound	Bar Wound	Bar Wound
AVR	Digital		
Voltage sensing	3-Phase		
Bearing Arrangement	Double		
SAE Adaptors	0, 00		
Terminals	6		
Material Insulation Class	H	H	F
Excitation System	PMG		
Ingress Protection	IP23		
Temperature monitoring	Winding RTDs		
Connection with other machines	Paralleling capability		

Optional Features

Bearing Arrangement	Single*
Ingress Protection	IP23 Air Filters
Temperature monitoring	Thermistors
Environmental protection	Anti-condensation Heaters

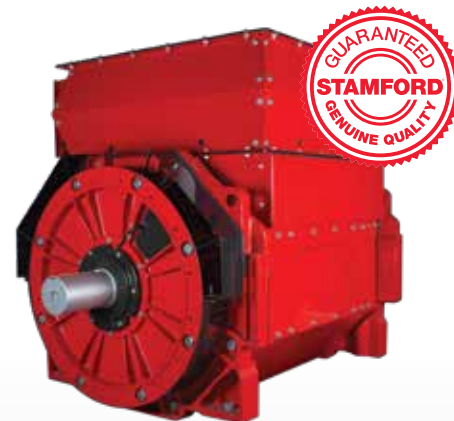
Designed For

Power Plant	●	●	●
Grid Code Compatible	●	●	●
Marine Propulsion	●		
Marine Auxiliary	●		
Oil & Gas Auxiliary	●		
Combined Heat & Power	●	●	●
Critical Protection & UPS	●	●	●
Continuous Power & Standby	●	●	●

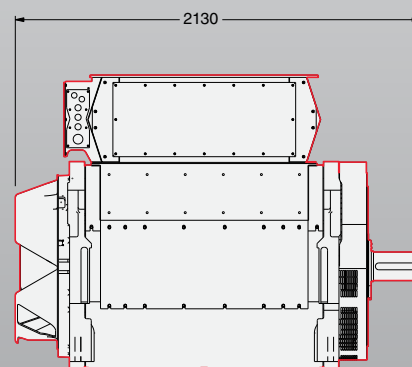
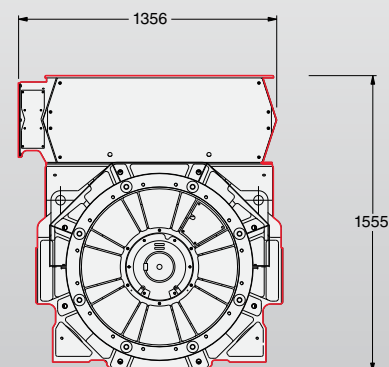
Prime Movers

Diesel Engine	●	●	●
Gas Engine	●	●	●
Gas Turbine	●	●	●
Steam Turbine	●	●	●

* Not for cores W, X, Y

**DIMENSIONS**

Drawings represent standard design
All dimensions in millimetres (mm)



Low Voltage

2,265 - 4,770 kVA

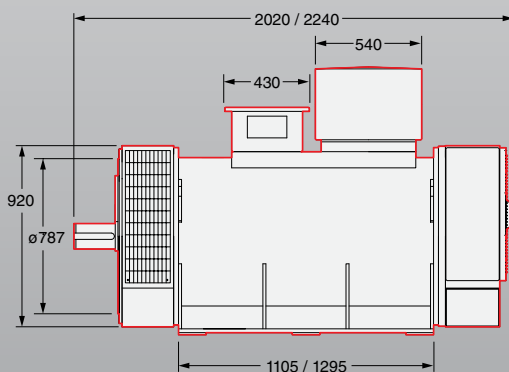
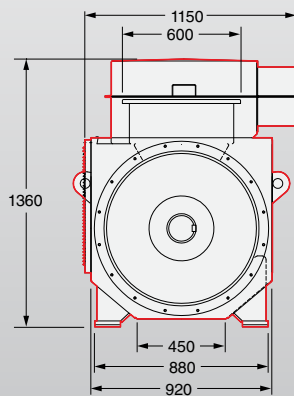
High Voltage

2,290- 5,080 kVA



DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DSG 99

AvK®

Model	DSG 99
Maximum continuous rating at 50Hz (kVA)	4,700
Maximum continuous rating at 60Hz (kVA)	5,300

Specifications	
Voltage Range	400-690
Poles	4, 6, 8, 10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	
Grid Code Compatible	●
Marine Propulsion	●
Marine Auxiliary	●
Oil & Gas	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	
Steam Turbine	

AvK®**DSG 114**

Model	DSG 114
Maximum continuous rating at 50Hz (kVA)	5,000
Maximum continuous rating at 60Hz (kVA)	5,940

Specifications

Voltage Range	400-690
Poles	6, 8, 10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features

Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For

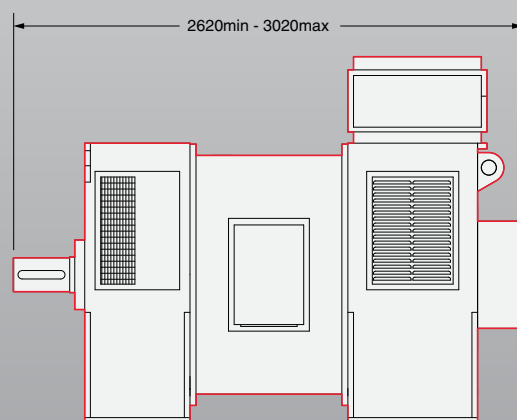
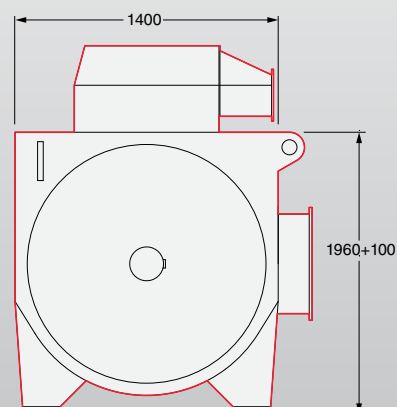
Power Plant	
Grid Code Compatible	
Marine Propulsion	●
Marine Auxiliary	●
Oil & Gas	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●
Gas Turbine	
Steam Turbine	

**DIMENSIONS**

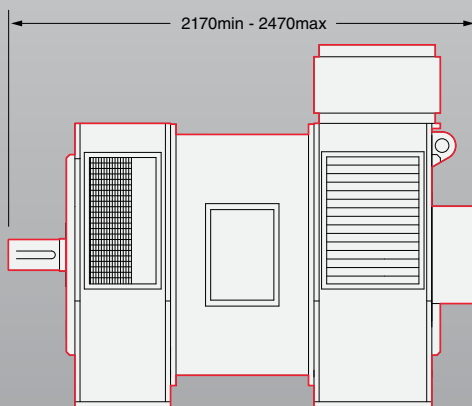
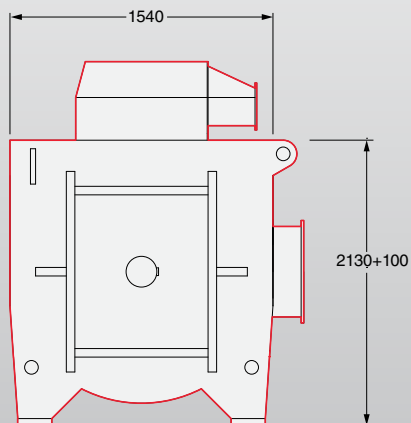
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DSG 125

AvK®

Model	DSG 125
Maximum continuous rating at 50Hz (kVA)	7,000
Maximum continuous rating at 60Hz (kVA)	8,500

Specifications	
Voltage Range	690
Poles	8, 10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double (Sleeve Bearings)
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP44
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Ingress Protection	IP54/55 Totally enclosed
Cooling options	CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	
Grid Code Compatible	
Marine Propulsion	●
Marine Auxiliary	●
Oil & Gas	●
Combined Heat & Power	
Critical Protection & UPS	
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	
Steam Turbine	

4,200 - 8,500 kVA

AvK®**DSG 144**

Model	DSG 144
Maximum continuous rating at 60Hz (kVA)	6,600

Specifications

Voltage Range	690
Poles	10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double (Sleeve Bearings)
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	H
Excitation System	Auxiliary Winding
Ingress Protection	IP44
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features

Ingress Protection	IP54/55 Totally enclosed
Cooling options	CACW
Environmental protection	Anti-condensation Heaters

Designed For

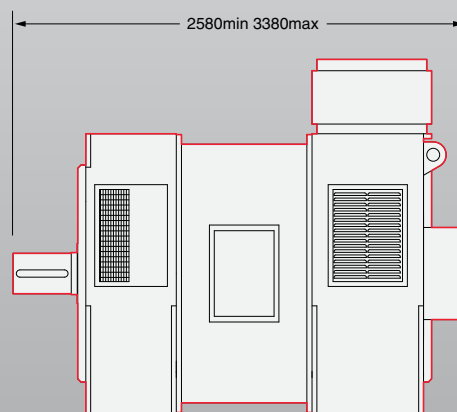
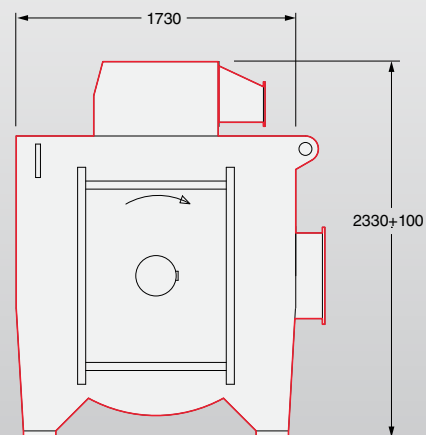
Power Plant	
Grid Code Compatible	
Marine Propulsion	●
Marine Auxiliary	●
Oil & Gas	●
Combined Heat & Power	
Critical Protection & UPS	
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●
Gas Turbine	
Steam Turbine	

**DIMENSIONS**

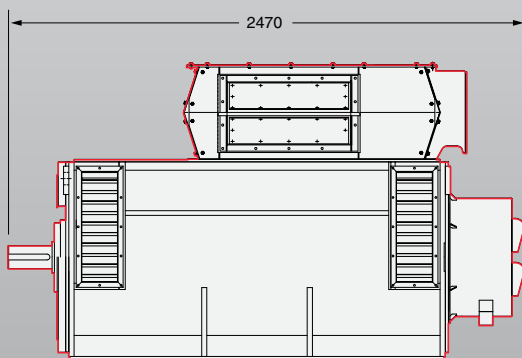
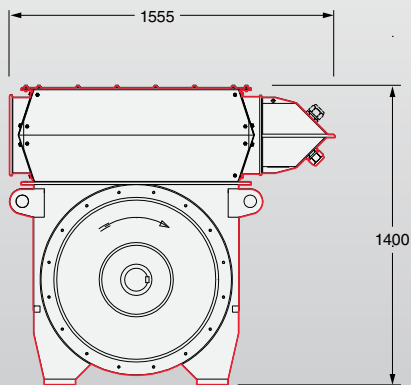
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DIG 110

AvK®

Model	DIG 110
Maximum continuous rating at 50Hz (kVA)	1,080
Maximum continuous rating at 60Hz (kVA)	1,300

Specifications	
Voltage Range	3,300-11,000
Poles	4
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

High Voltage
560 - 1,300 kVA

AvK®**DIG 120**

Model	DIG 120
Maximum continuous rating at 50Hz (kVA)	2,050
Maximum continuous rating at 60Hz (kVA)	2,600

Specifications

Voltage Range	3,300-11,000
Poles	4
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features

Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For

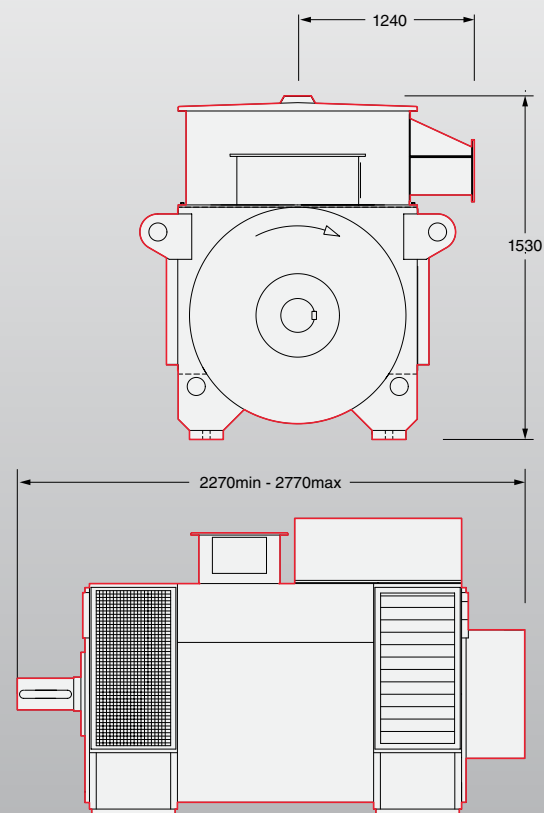
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers

Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

**DIMENSIONS**

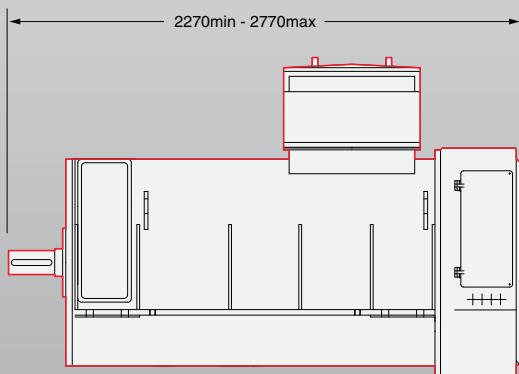
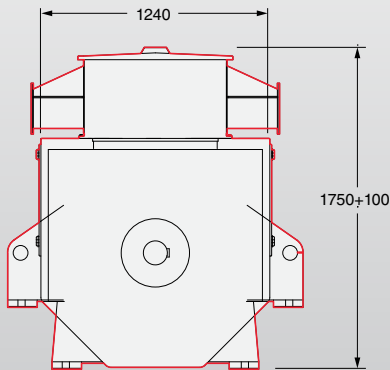
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DIG 130

AvK®

Model	DIG 130
Maximum continuous rating at 50Hz (kVA)	3,850
Maximum continuous rating at 60Hz (kVA)	4,000

Specifications	
Voltage Range	3,300-13,800
Poles	4, 6
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	1, 0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54/55 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

High Voltage
1,140 - 4,000 kVA

AvK®**DIG 140**

Model	DIG 140
Maximum continuous rating at 50Hz (kVA)	4,600
Maximum continuous rating at 60Hz (kVA)	5,300

Specifications	
Voltage Range	3,300-13,800
Poles	4, 6
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

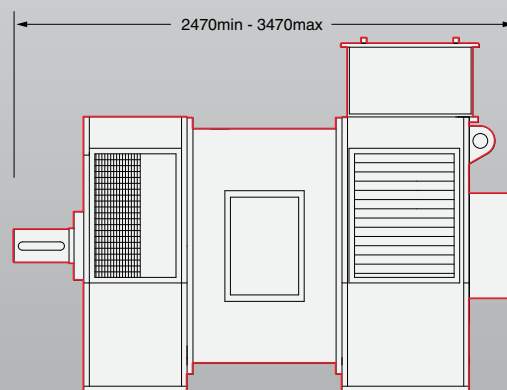
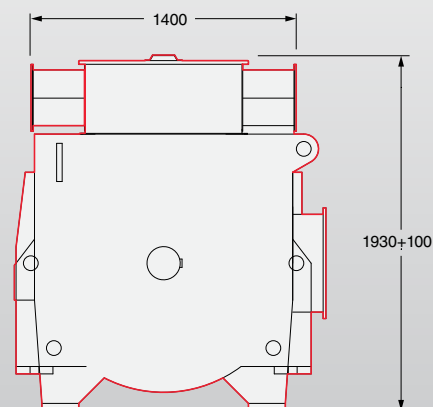
Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

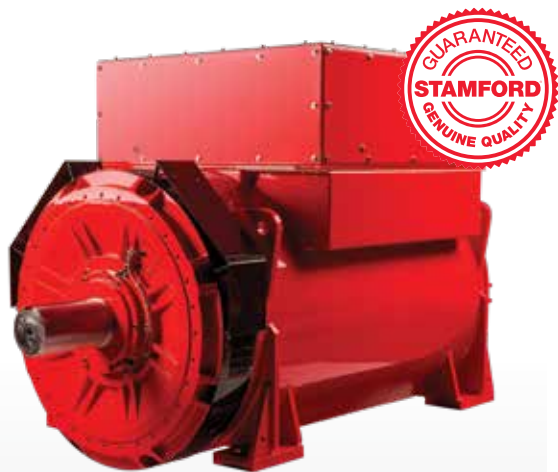
Designed For	
Power Plant	●
Grid Code Compatible	
Marine Propulsion	●
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

**DIMENSIONS**

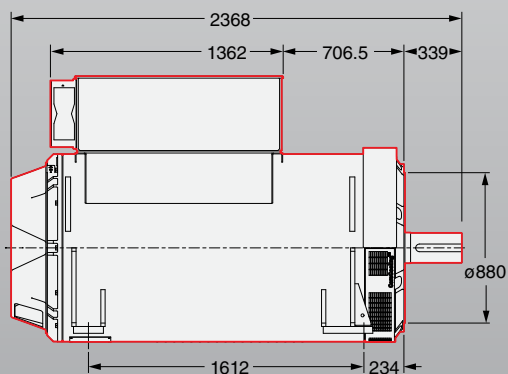
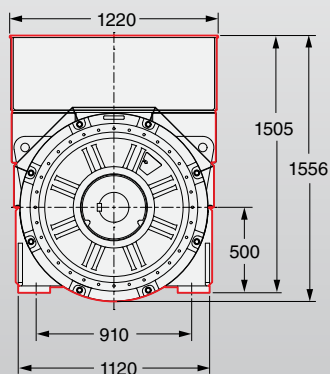
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



**3 YEAR
WARRANTY**

S9

STAMFORD®

Model	S9
Maximum continuous rating at 50Hz (kVA)	4,500
Maximum continuous rating at 60Hz (kVA)	5,000

Specifications	
Voltage Range	3,300 - 13,800
Poles	4
Technology	Bar Wound
AVR	Digital
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
Temperature Monitoring	Winding RTDs

Optional Features	
Voltage Sensing	3 Phase
Centre height	265, 349, 450
Current transformers	1, 2, 3 per phase
Earth fault protection	Current Transformer

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	
Marine Auxiliary	●
Oil & Gas	
Oil & Gas Auxiliary	●
Combined Heat & Power	●
Critical Protection & UPS	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●

High Voltage
2,150 - 5,000 kVA

AvK®**DIG 142**

Model	DIG 142
Maximum continuous rating at 50Hz (kVA)	5,800
Maximum continuous rating at 60Hz (kVA)	6,700

Specifications	
Voltage Range	3,300-13,800
Poles	4
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

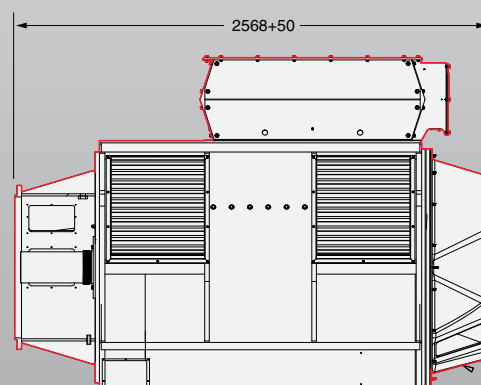
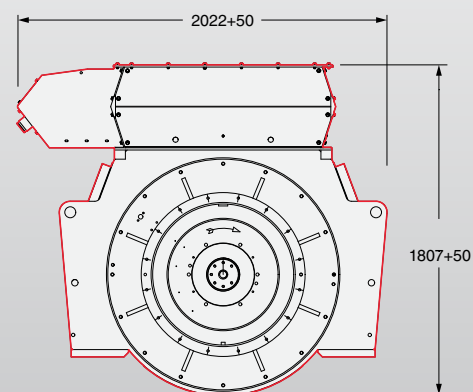
Optional Features	
Ingress Protection	IP23 Air Filters
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

**DIMENSIONS**

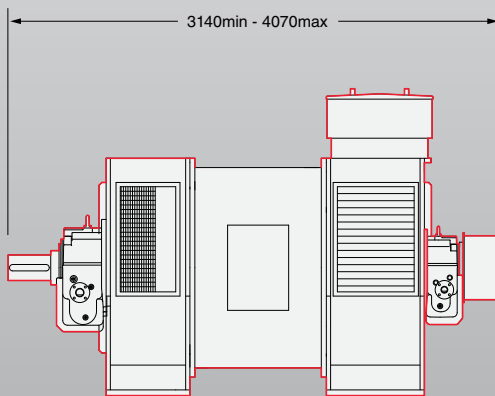
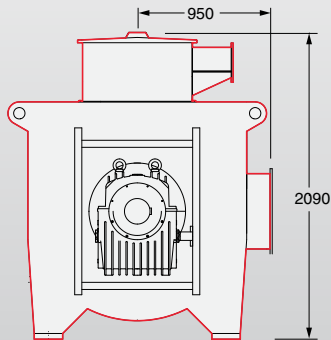
Drawings represent standard design
All dimensions in millimetres (mm)





DIMENSIONS

Drawings represent standard design
All dimensions in millimetres (mm)



DIG 150

AvK®

Model	DIG 150
Maximum continuous rating at 50Hz (kVA)	7,400
Maximum continuous rating at 60Hz (kVA)	8,500

Specifications	
Voltage Range	3,300-13,800
Poles	4, 6, 8
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double
SAE Adaptors	0, 00
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

Optional Features	
Bearing Arrangement	Sleeve Bearings
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	●
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

AvK®**DIG 156**

Model	DIG 156
Maximum continuous rating at 50Hz (kVA)	10,800
Maximum continuous rating at 60Hz (kVA)	11,200

Specifications	
Voltage Range	3,300-13,800
Poles	6, 8, 10
Technology	Bar Wound
AVR	Digital
Voltage sensing	3-Phase
Bearing Arrangement	Double (Sleeve Bearings)
Terminals	6
Material Insulation Class	F
Excitation System	Auxiliary Winding
Ingress Protection	IP23
Temperature monitoring	Winding RTDs
Connection with other machines	Paralleling capability

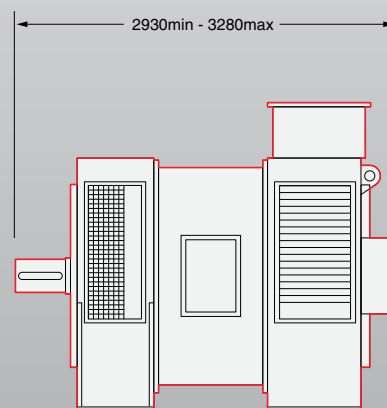
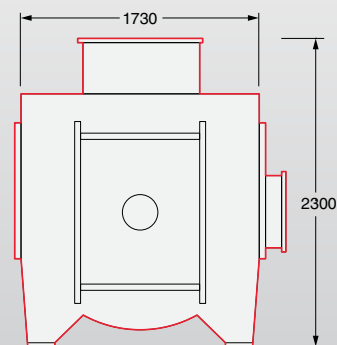
Optional Features	
Ingress Protection	IP23 Air Filters
Ingress Protection	IP44/54 Totally enclosed
Cooling options	CACA/CACW
Environmental protection	Anti-condensation Heaters

Designed For	
Power Plant	●
Grid Code Compatible	●
Marine Propulsion	●
Oil & Gas	●
Combined Heat & Power	●
Continuous Power & Standby	●

Prime Movers	
Diesel Engine	●
Gas Engine	●
Gas Turbine	●
Steam Turbine	●

**DIMENSIONS**

*Drawings represent standard design
All dimensions in millimetres (mm)*



One Global Standard

Although our products are used in a variety of applications, the common factor is that Cummins Generator Technologies work to a single standard for their products and services no matter where you are in the world.

We work to One Global Standard, so each of our manufacturing plants build products to the same exacting quality that has come to distinguish our alternators in the industry.

All of our plants utilise the same sophisticated manufacturing technologies, advanced systems, common practices and rigorous testing techniques to ensure your **NEWAGE, STAMFORD and AvK** alternators are built to last.

Our Promise

At Cummins Generator Technologies, it's not just the products we make that set us apart - it's how we engage our customers every day. The unique combination of knowledge, dependability and innovation we bring to each customer relationship turns everyday service into excellent customer support. As a result we help our customers operate with greater efficiency, making it possible for them to compete more successfully throughout the world.

Cummins Generator Technologies manufactures the world's broadest range of alternators up to 11,200 kVA.

There for you™



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**Generator
Technologies**

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