



Powered by
Perkins®

PWR720-PWR1500, Three Phase, 720-1650kVA

Strong, Corrosion Resistant Construction

- High quality base, coated and protected with a modern corrosion resistant finish, for excellent long-term resilience.
- High quality, ISO R898 Structural Bolts, zinc coated for excellent corrosion resistance.
- S275 steel, laser cut and CNC formed.
- This product is ONLY produced in the UK, using UK sourced steel produced to BS, EN and ISO standards.

High Quality Power on Demand

- Remote start control panel as standard produced using a UK made DSE 7x20 series control module.
- Our units offer not only excellent ratings aligned with key power nodes, but high quality power, excellent reactive power availability, high overload capability and many other options on Stamford alternators.

Transportation

- Unit is forklift-ready, allowing easy positioning on site.
- Strong and sturdy feet and base for excellent transportability, movement and long term strength.
- Optional Additional Lifting Points.

Quality Materials and Workmanship

- Engineered from design to assembly by our dedicated team, we provide exceptional solutions to your needs.
- UK suppliers are subjected to extensive checks within our ISO 9001 framework.
- In house laser cutting and sheet metal facility allows production to the highest possible standards.

Safety, Security and the Environment

- Radiator fan and battery charging alternator fully guarded.
- High quality roof mounted silencer for operator safety.
- Alternator moving parts fully guarded to prevent injury.
- Alternative engine options available, allowing certification against the requirements of EU Stage IIIA (Directives 97/68/EC, as last amended) for mobile applications.

Servicing and Support

- Replaceable element fuel and air filters, full flow spin on oil filters.
- Spares available usually next day.
- High quality support for technical issues.
- International Perkins / Stamford Warranty.

Standard Features

- Heavy duty Perkins engine.
- Manuals and circuit wiring diagrams.
- UK assembly in our ISO 9001 facility.
- Test and Pre Delivery Inspection Check
- Deep Sea Electronics 7320 Series controller.

Additional Options

- A range of sound attenuated enclosures / containers.
- Higher specification control panels / synchronising
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels.
- Optionally wired for Cold Start. / Engine Heaters

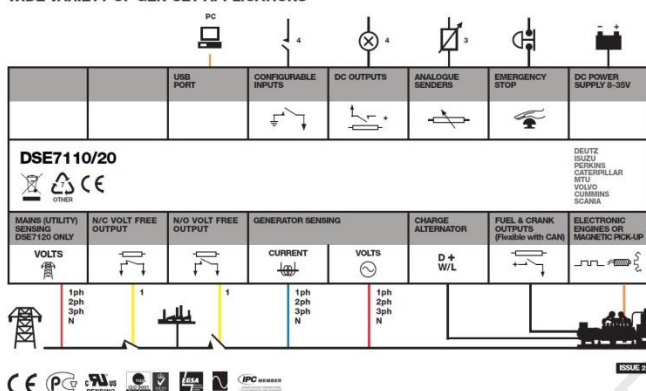
Power You Control



Global solutions for power requirements come from global companies. With over 60 years' experience producing generators for sale in over 100 countries; we can assist you to meet your power requirement, on time and on budget.

Based on the proven UK made Perkins diesel engine, coupled to a Stamford alternator, a UK made Deep Sea 7000 series controller gives outstanding monitoring and features. Deep Sea Control modules are a "must have" feature for all segments of the generator market.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS



The DSE 7000 series controllers have a range of advanced features, expansion boards and configuration options to suit the most demanding applications. A rugged, modern design with a proven track record enables you to meet your power requirement each and every time.

With a huge range of options and accessories, alternative and custom builds we offer a unit to suit your requirements. Upgrade controllers for enhanced metering, remote monitoring and synchronising control. We offer synchronising systems for up to 32 generators and mains synchronising for peak lopping, no break return and STOR applications.

See our control panel guide for more detail.

Shutdowns and Protections

- Low Oil pressure Shutdown
- High Engine Temperature Shutdown
- Under Voltage Warning / Shutdown
- Over Voltage Warning / Shutdown
- Over speed / Over Frequency
- Under speed / Under Frequency
- Over Crank / Fail To Start Alarm
- Over Current Alarms

Monitoring and Control

- Manual and Automatic Modes
- Three phase voltage monitoring
- Three phase current monitoring
- Frequency monitoring
- Start, Crank, Crank Rest, Warm Up Timers
- Return and Cool down timers
- Battery under / Over voltage alarms
- Exercise Scheduler

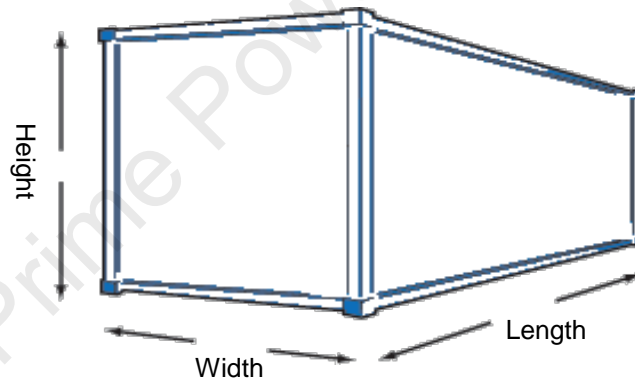
Generator Ratings Data (Standby / Prime)

Model	Gross Engine Power	Net Engine Power	Alternator Efficiency at full rated load	Available Active Power	Power Factor	kVA Rating
	kW	kW	%	kW		kVA
Three Phase Models						
PWR720	711 / 646	695 / 632	94.4	656 / 596	0.8	820 / 746
PWR800	786 / 705	760 / 679	94.4	688 / 641	0.8	860 / 801
PWR910	877 / 800	844 / 767	95	802 / 729	0.8	1002 / 911
PWR1000	985 / 899	947 / 861	95.1	888 / 819	0.8	1110 / 1024
PWR1125	1105 / 997	1055 / 947	95.8	997 / 895	0.8	1220 / 1110
PWR1250	1224 / 1113	1166 / 1055	94.9	1106 / 1001	0.8	1383 / 1251
PWR1350	1321 / 1207	1263 / 1149	94.9	1199 / 1090	0.8	1498 / 1363
PWR1500	1437 / 1309	1395 / 1267	95.4	1328 / 1209	0.8	1660 / 1511

Engine Advanced Technical Data

Model	Engine Make	Engine Model	Induction	Cooling	Governor Type/Class	Compression Ratio	Displacement	Charging Alternator Amms	Oil Capacity (L)	Exhaust Gas Temperature (Deg. C)
PWR720	Perkins	4006-23TAG2A	Turbo Charged	Water Cooled	Electronic	13.6 : 1	22.9L	40	113.4	500
PWR800	Perkins	4006-23TAG3A			Electronic	13.6 : 1	22.9L	40	113.4	500
PWR910	Perkins	4008TAG1A			Electronic	13.6 : 1	30.5L	40	153	438
PWR1000	Perkins	4008TAG2A			Electronic	13.6 : 1	30.5L	40	153	438
PWR1125	Perkins	4008-30TAG3			Electronic	13.6 : 1	30.5L	40	153	438
PWR1250	Perkins	4012-46TWG2A			Electronic	13 : 1	45.4L	40	177	422
PWR1350	Perkins	4012-46TWG3A			Electronic	13 : 1	45.4L	40	177	422
PWR1500	Perkins	4012-46TAG2A			Electronic	13 : 1	45.4L	40	177	470

Advanced Alternator Technical Data												
Model	Alternator Make	Alternator Model	Bearings	Winding Pitch	Wires	AVR Model	Voltage Regulation	Total Harmonic Content (%)	Short Circuit Capacity	Reactance's %		
										Xd	X'd	X''d
PWR720	Stamford	HCI 634G	1	2/3	12	MX321	± 1%	<5%	300%	283	23	16
PWR800		HCI 634G				MX321	± 1%	<5%		283	23	16
PWR910		HCI 634H				MX321	± 1%	<5%		270	23	16
PWR1000		HCI 634J				MX321	± 1%	<5%		281	23	15
PWR1125		HCI634K				MX321	± 1%	<5%				
PWR1250		PI 734B				MX341	± 1%	<5%		326	20	15
PWR1350		PI 734B				MX341	± 1%	<5%		326	20	15
PWR1500		PI 734C				MX341	± 1%	<5%		296	18	13
Radio interference suppression that meets or exceeds EU standard EN61000-6. Voltage regulation at steady state. Total Waveform distortion at full load.												



Dimensions, Weights and Fuel Consumption												
	Canopied Dimensions				All Units				Open Set Dimensions			
Model	Length (mm)	Width (mm)	Height (mm)	Weight (KG)	Tank Capacity (Litres) Canopy / Open	Fuel Consumption (L / hr)			Length (mm)	Width (mm)	Height (mm)	Weight (KG)
						110 %	100 %	75 %				
Three Phase Models												
PWR720	Please consult sales, all these units require containers. See our container leaflet for more detail.				NA	176	159	119	3800	1710	2370	6241
PWR800					NA	203	175	132	3800	1710	2370	6274
PWR910					NA	200	187	156	5000	1870	2370	7505
PWR1000					NA	234	213	170	5000	1870	2370	7505
PWR1125					NA	269	244	200				
PWR1250					NA	288	259	196	5100	2050	2510	9360
PWR1350					NA	318	283	213	5100	2050	2510	9980
PWR1500					NA	329	297	226	5100	2090	2510	10080
Fuel consumptions all at 1500RPM. Bulk tank required must be a minimum of 4000L. All weights and dimensions are approximate, should the weight or any dimension be critical to your application, please ensure you obtain full verification from sales prior to placing an order.												

While every effort is made to maintain these specifications, in line with our policy of continuous improvement we reserve the right to change the specification without notice. If any part of this specification is critical to your application, please ensure you confirm it with your sales engineer prior to placing an order. Some items shown on this specification sheet may be non-standard. Some features shown on this leaflet may be optional at additional cost. Please confirm all options required with a sales agent prior to placing an order. The Prime Power Logo, "Prime Power" is a trademark of Welland Power Limited. All other Logos featured are trademarks of their respective owners.



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Multiple Units, Different Sizes

Same size or different size units can be purchased and synchronised and used in advanced load demand schemes to promote your objectives.

Worldwide Support

Perkins is a brand that is recognised and trusted worldwide. This high level of service and support along with an international Perkins engine warranty allows you to have the highest level of confidence.

Built To Specification

The Perkins 4000 series range of generators can either be purchased in our standard specification or built to your required specification.

High Quality as Standard

The Welland Range of high quality generators are built and designed in the UK. The combination of materials and technical knowledge combine to provide you with a high quality product.



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