



WP140-WP200, Three Phase, 140-200kVA

Strong, Corrosion Resistant Construction

- Base frame, coated with polyester powder coat at over 200 Degrees C, 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 7000 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 a wide range of 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 central lifting point.

Quality Materials and Workmanship

- Engineered from design to assembly by our dedicated team, we provide exceptional solutions to your needs.
- High quality welded steel tank.
- 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 Environment

- Radiator fan and battery charging alternator fully guarded.
- 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.

Every Welland Power Generator Is Made In The UK.

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 7120 MK 2 Controller.

Additional Options

- A range of sound attenuated enclosures.
- DSE 7320 MK 2 Controller.
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels.
- PMG
- Optionally wired for Cold Start.

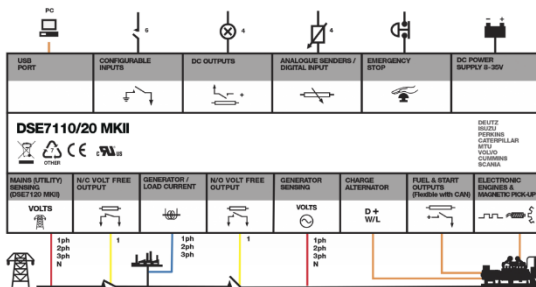
Power You Control



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, The 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 as it includes a wide range of configurable options and extension modules to meet every requirement.

CONNECTION DIAGRAM



With a huge range of options and accessories as well as 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 guides for more details.

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	ϕ	kVA
WP140	140 / 127	134 / 121	93.2	120 / 111	0.8	150 / 138.7
WP150	150 / 136	144 / 131	93.2	133 / 120	0.8	166 / 151
WP180	181 / 164	175 / 158	94.1	165 / 147	0.8	200 / 180
WP200	196 / 178	191 / 173	94.5	180 / 163	0.8	225 / 203

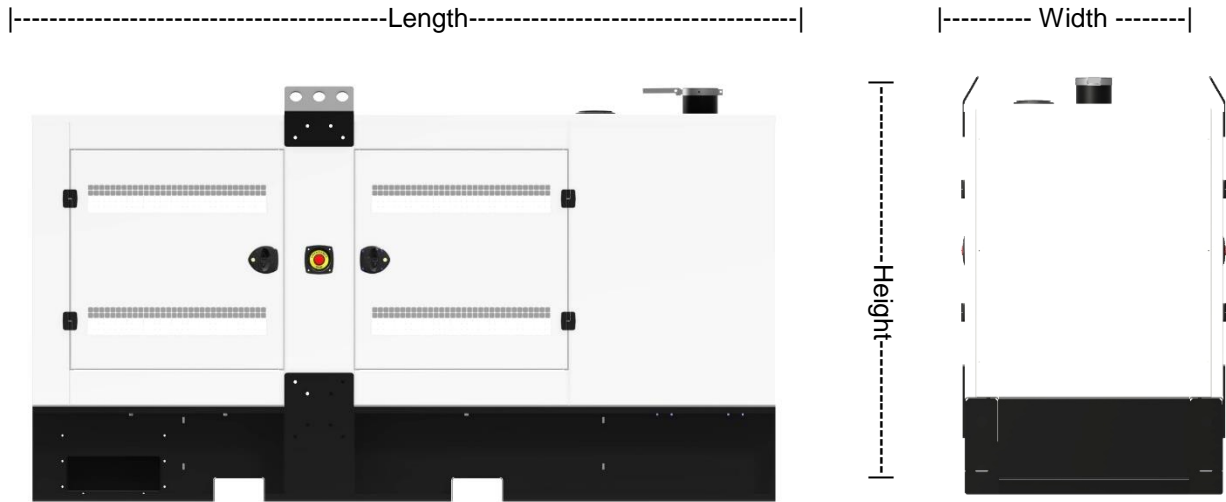
Engine Advanced Technical Data

Model	Engine Make	Engine Model	Induction	Cooling	Governor Type/Class	Compression Ratio	Displacement	Charging Alternator Amps	Gross Standby Engine Power (kw)	Oil Capacity (L)	Exhaust Gas Temperature (Deg. C)
Three Phase Models											
WP140	Perkins	1106A-70TG1	Turbo Charged	Water Cooled	Mechanical	18.2 : 1	7.01	65	136	18.0	576
WP150	Perkins	1106A-70TAG2			Mechanical	18.2 : 1	7.01	65	150	18.0	484
WP180	Perkins	1106A-70TAG3			Mechanical	18.2 : 1	7.01	65	150	18.0	
WP200	Perkins	1106A-70TAG4			Mechanical	18.2 : 1	7.01	65	150	18.0	550

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
WP140	Stamford	UCI 274E	1	2/3	12	SX460	± 1%	<5%	>300%	221	18	13
WP150		UCI 274F				SX460	± 1%	<5%		211	19	13
WP180		UCI274G				SX460	± 1%	<5%		202	17	12
WP200		UCI274H				SX460	± 1%	<5%		191	16	11

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

Model	Canopied Dimensions				All Units				Open Set Dimensions			
	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												
WP140	3200	1131	1787	TBC	400L / 275L	34.6	31.5	24.1	2200	840	1600	1288
WP150	3200	1131	1787	TBC	400L / 275L	36.1	33.4	24.7	2300	840	1600	1344
WP180	3200	1131	1787	TBC	400L / 275L				2300	840	1600	1394
WP200	3200	1131	1787	TBC	400L / 275L	49.4	45.8	34.7	2400	840	1600	1440

950mm is required to open canopy doors. Fuel consumptions all at 1500RPM.

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.



Optional CP2400 Canopy Specification

Strong, Corrosion Resistant Construction

- Zintec cold rolled sheet, polyester powder coated at over 200 Degrees C provides corrosion protection.
- Black zinc die cast hinges on doors tested and proven to withstand extremely corrosive conditions.

Maintenance And Access

- Unit has 980mm doors for excellent access.
- Removable Doors, modular bolt together design.
- Radiator fills easily with ample space.
- Oil Drain and Radiator Drain available as options.

Quality Materials and Workmanship

- Welded roof and doors for excellent finish.
- Reinforced ridged doors for enhanced strength.
- High quality adjustable handles.
- UK Made control panel and control cables.

Safety and Security

- Fully lockable canopy.
- High quality roof mounted silencer for operator safety.
- Canopy shields hot engine parts.
- Emergency Stop Button fitted as standard.

The Welland sound attenuated enclosures reduce sound levels to comply with the stage 2 levels of the European Community Directive 2000/14/EC

Sound Pressure Levels, CP2500 Enclosure

Model	Rating	LWA	15m		7m		1m	
			75%	100%	75%	100%	75%	100%
3 Phase Generators								
WP140	Prime		60.9	61.7	68.3	68.7	79.8	81.2
	Standby		61.1	61.8	68.3	68.7	79.9	81.5
WP150	Prime		61.6	62.4	69.0	69.5	80.7	82.3
	Standby		61.7	62.4	69.1	69.6	80.6	82.9
WP180	Prime		62.1	62.7	69.3	69.9	82.1	82.9
	Standby		62.3	62.9	69.2	70.1	82.9	83.6
WP200	Prime		62.4	63.1	69.5	70.1	82.6	83.5
	Standby		62.6	63.2	69.7	70.5	83.3	83.9

Sound pressure Level figures are provisional. For verification of a particular figure, please contact sales.

Your Local Welland Power Dealer:

WWW.WELLANDPOWER.NET

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