



### WP30-WP100C, Three Phase, 30-110kVA

#### Strong, Corrosion Resistant Construction

- British steel base frame, coated with polyester powder coat at over 200 Degrees C.
- High quality, ISO R898 Structural Bolts, zinc coated for excellent corrosion resistance.
- Canopy CNC laser cut and CNC formed at our UK factory.
- This product is ONLY produced in the UK, using UK sourced steel produced to BS, EN and ISO standards.

#### High Quality Power on Demand

- Control panel has remote start / AMF as standard using a UK made DSE 7000 series control module.
- Our standard 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 available on Stamford alternators.

#### Transportation

- Unit is forklift-ready allowing easy positioning on site.
- Strong base for excellent transportability.

#### Quality Materials and Workmanship

- Engineered from design to assembly by our dedicated team, we provide economical solutions to your needs.
- Our Range of welded fuel tanks have best in class capacity and are exceptionally strong and durable.
- 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.
- Silencer enclosed for operator safety.
- Alternator moving parts fully guarded to prevent injury.
- Optionally, alternative emission compliant models can be 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 usually available 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.
- LS Circuit breaker (LG).

## Additional Options

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

## Power You Control

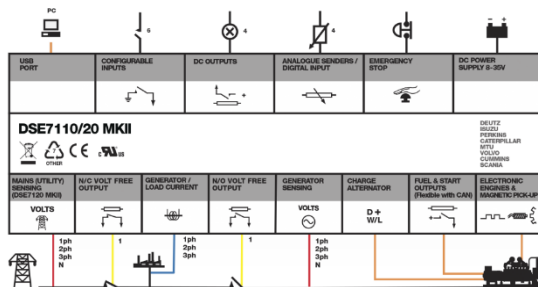


Global solutions for power requirements come from global companies. With over 60 years' experience producing generators for sale in over 100 countries; we can assist you to meet your power requirement, on time and on budget.

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, 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		kVA
<b>Three Phase Models</b>						
WP30	31.0 / 28.2	30.4 / 27.7	86.6	26.3 / 24.0	0.8	32.9 / 30
WP40	46.5 / 42.2	45.6 / 41.3	88.6	36.0 / 32.0	0.8	45 / 40
WP42.5	46.5 / 42.2	45.6 / 41.3	89.2	37.4 / 34.0	0.8	46.8 / 42.5
WP45	46.5 / 42.2	45.6 / 41.3	87.7	40.3 / 36.0	0.8	50.4 / 44.9
WP60	60.5 / 55	59.3 / 53.8	88.7	50.4 / 47.9	0.8	63 / 59.9
WP65	65.6 / 59.6	64.3 / 58.4	89.9	57.5 / 52.1	0.8	71.9 / 65.2
WP80	80.7 / 73.4	79.1 / 71.9	90.2	71.3 / 64.9	0.8	89.1 / 81.2
WP100C	103 / 93.6	100 / 90	90.4	88.0 / 80.0	0.8	110 / 100

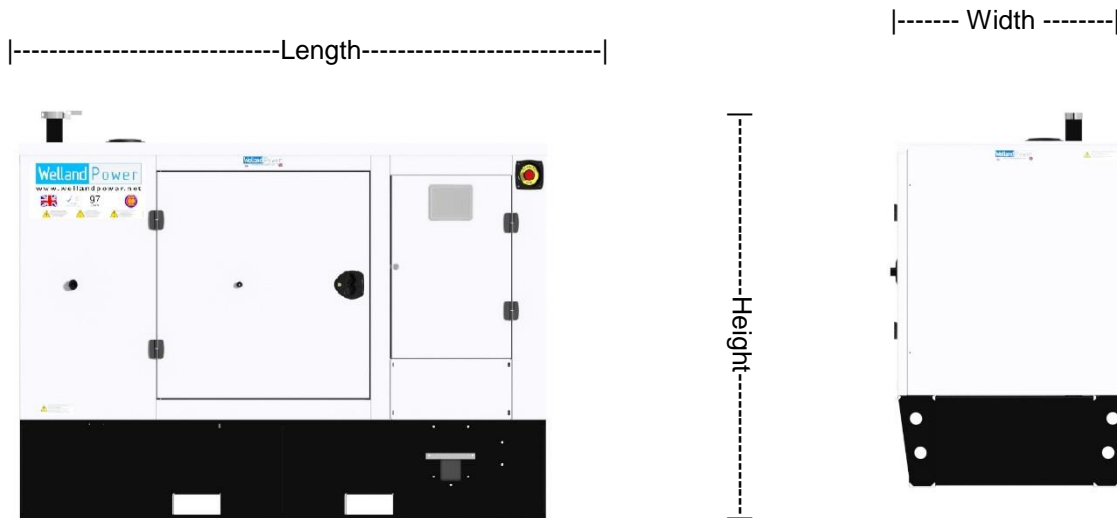
## Engine Advanced Technical Data

Model	Engine Make	Engine Model	Induction	Cooling	Governor Type/Class	Compression Ratio	Displacement (L)	Charging Alternator Amps	Gross Standby Engine Power kW/m	Oil Capacity (L)	Exhaust Gas Temperature (Deg. C)	
<b>Three Phase Models</b>												
WP30	Perkins	1103A-33G	Nat-Asp	Water Cooled	Mechanical ISO 8528 G2	19.25:1	3.3	65	31	8.3	500	
WP40	Perkins	1103A-33TG1	Turbo Charged			17.25:1	3.3	65	46.5	8.3	492	
WP42.5	Perkins	1103A-33TG1				17.25:1	3.3	65	46.5	8.3	492	
WP45	Perkins	1103A-33TG1				17.25:1	3.3	65	46.5	8.3	492	
WP60	Perkins	1103A-33TG2				17.25:1	3.3	65	60.5	8.3	557	
WP65	Perkins	1104A-44TG1				17.25:1	4.4	65	65.6	8.0	515	
WP80	Perkins	1104A-44TG2				17.25:1	4.4	65	80.7	8.0	555	
WP100C	Perkins	1104C-44TAG2				Electronic	18.3:1	4.4	65	93.6	8.0	574

## 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
WP30	Stamford	SOL1-P1	1	2/3	12	AS540	± 1%	<5%	>300%	157	14	11
WP45		S1L2-M1				AS540	± 1%	<5%		173	16	12
WP60		S1L2-Y1				AS540	± 1%	<5%		224	17	12
WP65		UCI 224F				SX460	± 1%	<5%		207	16	11
WP80		UCI 224G				SX460	± 1%	<5%		220	17	12
WP100C		UCI 274C				SX460	± 1%	<5%		221	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

Model	Canopied Dimensions				All Units			Open Set Dimensions				
	Length (mm)	Width (mm)	Height (mm)	Weight (KG)	Tank Capacity (Litres) Open / Canopied	Fuel Consumption (L/hr)			Length (mm)	Width (mm)	Height (mm)	Weight (KG)
						110 %	100 %	75 %				
<b>Three Phase Models</b>												
WP30	2298	1104	1600	914	75L / 260L	7.9	7.1	5.4	1500	700	1410	622
WP40	2298	1104	1600	1010	75L / 260L	12	10.7	8.2	1500	700	1410	650
WP42.5	2298	1104	1600	1019	75L / 260L	12	10.7	8.2	1500	700	1410	659
WP45	2298	1104	1600	1111	125L / 260L	12	10.7	8.2	1700	700	1410	751
WP60	2298	1104	1600	1137	125L / 260L	15.4	13.9	10.4	1700	700	1410	777
WP65	2298	1104	1600	1206	275 / 260L	16.5	14.8	11.2	2100	700	1410	869
WP80	2298	1104	1600	1252	275 / 260L	20.5	18.7	14.0	2100	700	1410	915
WP100C	2298	1104	1600	1312	275 / 260L	24.9	22.6	17.1	2100	740	1600	1039

Height Excludes Exhaust Outlet, rain cap and any optional equipment on canopied models.

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/optional at additional cost. Images shown will be of one model in the range and may not reflect the model you have specifically purchased. Please confirm all options required with a sales agent prior to placing an order.



## Optional CP2104 Canopy Specification

### Strong, Corrosion Resistant Construction

- Polyester powder coated at over 200 Degrees C prevents corrosion.
- Black zinc die cast hinges on doors tested and proven to withstand extremely corrosive conditions.

### Maintenance and Access

- Unit has extra-large 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 extended life.
- High quality adjustable handles.
- Polycarbonate panel viewing window.

### Safety and Security

- Fully lockable canopy.
- Security bolts to prevent unauthorised access.
- 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, CP2104 Series Enclosure

Model	Rating	LWA	15m		7m		1m	
			75%	100%	75%	100%	75%	100%
<b>3 Phase Generators</b>								
WP30	Prime	95	62.3	64.3	68.4	70.4	79.9	81.3
	Standby	95	63.2	64.8	69.1	70.9	80.3	81.9
WP40	Prime	96	63.1	63.2	67.2	69.3	78.4	80.5
	Standby	96	61.9	64.2	68.0	70.1	79.1	81.3
WP42.5	Prime	96	61.8	63.3	67.8	69.8	78.9	80.9
	Standby	96	60.5	64.6	68.6	70.7	79.5	81.8
WP45	Prime	96	62.1	63.8	68.0	69.9	79.1	81.1
	Standby	96	62.5	64.5	68.4	70.6	79.6	82.5
WP60	Prime	93	62.2	63.9	68.2	70.0	79.3	81.1
	Standby	93	62.8	65.0	68.7	71.1	79.9	82.5
WP65	Prime	94	62.8	64.7	68.7	70.6	79.9	81.5
	Standby	94	63.4	65.1	69.3	71.1	80.4	82.1
WP80	Prime	95	63.3	64.8	69.2	70.9	80.1	81.9
	Standby	95	63.9	65.3	69.8	71.4	80.6	82.3
WP100C	Prime	96	64.9	67.3	71.0	73.4	82.1	84.3
	Standby	96	65.3	68.2	71.4	74.1	82.1	85.0

50Hz at 1500RPM. Figures are provisional only.

### Your Local Welland Power Dealer:

WWW.WELLANDPOWER.NET

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