Prime Power Solution®

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2018

60WP225 – 60WP355

60WP225

60WP250

60WP290

60WP320

60WP355

60Hz Diesel Generator Sets

Your Power.

Our Passion.

Perkins®

Diesel Power

STAMFORD

Generator Power Summary

GENERATOR MODEL	PRP kW	PRP kVA	ESP kW	ESP kVA
60WP225	187.1	233.9	207.5	259.4
60WP250	202.3	252.9	221.8	277.2
60WP290	231.8	289.7	256	320
60WP320	258.3	322.8	284.3	355.3
60WP355	278.7	348.4	309.4	386.7

Ratings based on NTP conditions 3 Phase, 440V, 1800RPM, 60Hz, 0.8 Power Factor.

Engine Overview

	60WP225	60WP250	60WP290	60WP320	60WP320
ENGINE MANUFACTURER	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
MODEL	1206A-E70TAG1	1506A-E88TAG1	1506A-E88TAG3	1506A-E88TAG4	1506A-E88TAG5
ENGINE ORIGIN	UK	USA	USA	USA	USA
ASPIRATION	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED	TURBOCHARGED
GOVERNOR TYPE	ELECTRONIC GOVERNOR	ELECTRONIC GOVERNOR	ELECTRONIC GOVERNOR	ELECTRONIC GOVERNOR	ELECTRONIC GOVERNOR
NO. OF CYLINDERS	6	6	6	6	6
DISPLACEMENT (L)	7.01	8.8	8.8	8.8	8.8
BORE	105mm	112mm	112mm	112mm	112mm
STROKE	135mm	149mm	149mm	149mm	149mm
COOLING TYPE	LIQUID COOLED	LIQUID COOLED	LIQUID COOLED	LIQUID COOLED	LIQUID COOLED
COOLANT CAPACITY (L)	25.0	29.6	29.6	33.2	33.2
OIL CAPACITY (L)	16.0	41.0	41.0	41.0	41.0
MAX EXHAUST OUTLET TEMPERATURE	500	444	496	498	512
	FUEL CONSUMPTION L/Hr				
50% LOAD	27.8	29.3	33.1	35.7	38.9
75% LOAD	40.4	41.6	47.5	51.1	56.8
@100% LOAD	54.5	54.2	63.1	68.2	77.1
@110% LOAD	61.1	59.5	69.8	75.0	85.7

ESP - STANDBY POWER - The maximum power available during a variable power sequence in which a Prime Power Diesel Generator is capable of delivering in the event of power outages or under test conditions.

PRP - PRIME POWER - The maximum power that the Prime Power Diesel Generator will be able to deliver continuously. Average load should be circa 70%. The generator can have overloaded by 10% for 1 hour per 12 hours.

Alternator Overview

	60WP225	60WP250	60WP290	60WP320	60WP355
ALTERNATOR MANUFACTURER	STAMFORD	STAMFORD	STAMFORD	STAMFORD	STAMFORD
MODEL	UCDI 274J	UCDI 274J	UCDI 274K	S4L1D-D41	S4L1D-D41
PHASES	3	3	3	3	3
BEARINGS	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
POLES	4	4	4	4	4
LEADS	12	12	12	12	12
AVR MODEL	SX460	SX460	SX460	AS440	AS440
VOLTAGE REGULATION	± 1%	± 1%	± 1%	± 1%	± 1%
INSULATION CLASS	H	H	H	H	H
EXCITATION	SELF EXCITED	SELF EXCITED	SELF EXCITED	SELF EXCITED	SELF EXCITED
CONNECTION TYPE	SERIES STAR	SERIES STAR	SERIES STAR	SERIES STAR	SERIES STAR
TOTAL HARMONIC CONTENT (NO LOAD)	< 1.5%	< 1.5%	< 1.5%	< 1.5%	< 1.5%
EFFICIENCY	92.8%	92.8%	92.7%	92.9%	92.9%
SHORT CIRCUIT CAPACITY	> 300%	> 300%	> 300%	> 300%	> 300%
REACTANCES Xd	2.475	2.475	2.903	3.46	3.46
REACTANCES X'd	0.153	0.153	0.136	0.21	0.21
REACTANCES X''d	0.090	0.090	0.089	0.14	0.14

Prime Power standard specification includes alternators from stock that are randomly allocated based on the physical specification required. Specific reference can be made to non-physical attributes such as country of origin, date of manufacture, warranty length and or other attributes that may be important to you or your customer at the point of order and these requests may incur mandatory additional costs in line with our cost of providing these attributes.

Alternative Alternator Options

	60WP225	60WP250	60WP290	60WP320	60WP355
Meccalte	ECP38N-3SA	ECP38N-3SA	ECP38N-1LA	ECP38N-2LA	ECP38N-2LA

Control Panel Overview

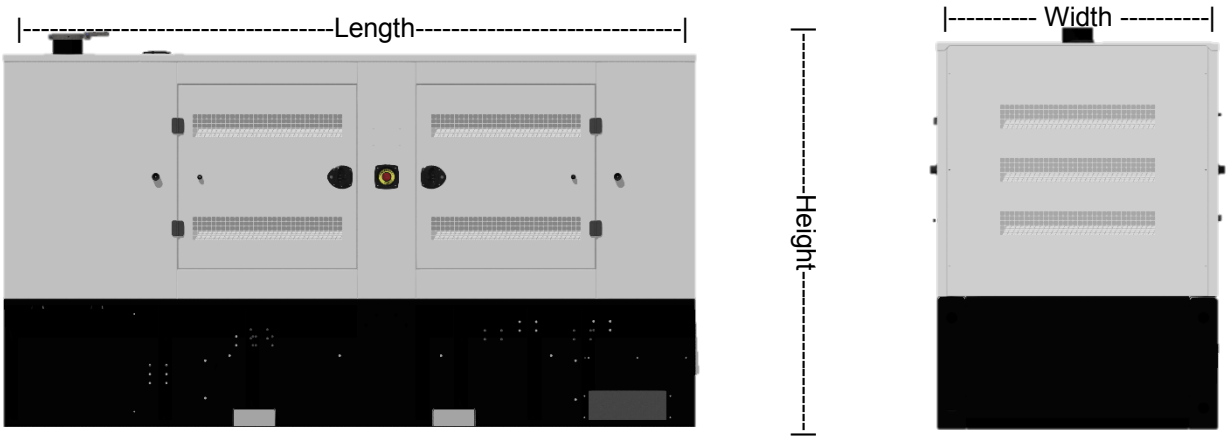
All standard Prime Power Diesel Generators come complete with a Deep Sea Electronics DSE7320mkII control panel.

The UK made DSE7320(ii) control panel gives outstanding monitoring and is loaded with features.

	STANDARD	AVAILABLE	ADDITIONAL EQUIPMENT REQUIRED
LOW OIL PRESSURE SHUTDOWN	•		
HIGH ENGINE TEMPERATURE SHUTDOWN	•		
UNDER VOLTAGE WARNING / SHUTDOWN	•		
OVER SPEED / OVER FREQUENCY WARNING / SHUTDOWN	•		
UNDER SPEED / UNDER FREQUENCY WARNING / SHUTDOWN	•		
OVER CRANK / FAIL TO START ALARMS	•		
OVER CURRENT ALARMS	•		
THREE PHASE VOLTAGE MONITORING	•		
FREQUENCY MONITORING	•		
START, CRANK, CRANK REST, WARM UP TIMERS	•		
RETURN AND COOL DOWN TIMERS	•		
BATTERY UNDER/OVER VOLTAGE ALARMS	•		
4 LINE BACK LIT LCD TEXT DISPLAY	•		
FIVE KEY MENU NAVIGATION	•		
CUSTOMISABLE STATUS SCREENS	•		
POWER SAVE MODE	•		
SUPPORT FOR UP TO 3 REMOTE DISPLAY UNITS	•		
CONFIGURABLE TIMERS AND ALARMS	•		
RECORDED EVENT LOG (250 OCCURENCES)	•		
CAN AND MAGNETIC PICK UP/ALT SENSING		•	
FUEL USAGE MONITORING AND LOW FUEL ALARM		•	
MANUAL FUEL PUMP CONTROL		•	
ENGINE EXERCISER	•		
PROTECTIONS DISABLED FEATURE	•		
kW AND kV PROTECTION	•		
REVERSE POWER PROTECTION		•	
POWER MONITORING (kW h, kV Ar, kV A h, kV Ar h)	•		
LOAD SWITCHING		•	
AUTOMATIC LOAD TRANSFER		•	
UNBALANCED LOAD PROTECTION		•	
INDEPENDENT FAULT EARTH TRIP		•	
USB CONNECTIVITY	•		
FULLY CONFIGURABLE VIA DSE CONFIG SUITE	•		
RS232 AND RS485 COMMUNICATIONS		•	
CONFIGURABLE GENNCOMM PAGES	•		
ADVANCED SMS MESSAGING AND START/STOP		•	4G GATEWAY MODULE REQUIRED
ETHERNET COMMUNICATIONS		•	DSE 855 MODULE REQUIRED
MODBUS INTEGRATION		•	

Weights, Dimensions and Canopy Specifications

- All Prime Power Bases and Canopy Panels are made in the UK in the Prime Power Factory.
- Easily moved via forklift.
- Intergrated silencer built into the base.
- Built in fuel tank with large 480L capacity.
- Bases are constructed from 4mm Mild Steel, finished with a textured black powder coat. (RAL9005)
- Designed for air flow suitable for tropical climates with Tropical Radiator as standard.
- Canopy Panels made from 2mm zinc coated mild steel and finished with a clean white powder coat finish. (RAL9910).
- Fully lockable canopy
- Security bolts to prevent unauthorised access.
- Emergency Stop Button as standard
- High quality adjustable handles.
- Large removable doors for excellent access.
- Black Zinc die cast hinges on doors, tested and proven to withstand extremely corrosive conditions.



		FUEL TANK SIZE (L)	LENGTH mm	WIDTH Mm	HEIGHT mm	WEIGHT Kg
OPEN FRAME SPECIFICATION	60WP225	730	3310	1165	1735	2775
	60WP250	730	3310	1165	1735	2876
	60WP290	730	3310	1165	1735	2876
	60WP320	730	3310	1165	1735	3116
	60WP350	730	3310	1165	1735	3116
CANOPIED SPECIFICATION	60WP225	480	3558	1454	2018	3360
	60WP250					3455
	60WP290					3490
	60WP320					3600
	60WP350					3600

	SOUND PRESSURE LEVELS dB		
	15m	7m	1m
60WP225	64.2	70.2	81.2
60WP250	64.3	70.3	81.3
60WP290	64.4	70.5	81.4
60WP320	64.6	71.1	81.6
60WP350	66.4	72.4	83.4

50Hz at 1500PRM. Figures are provisional only. The Prime sound attenuated enclosures reduce sound levels to comply with the stage 2 levels of the European Community Directive 2000/14/EC

Standard Specification

CANOPY SPECIFICATION	60WP225	60WP250	60WP290	60WP320	60WP355
DSE BATTERY CHARGER	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
FIRST FILL (Oil & Coolant)	STANDARD**	STANDARD**	STANDARD**	STANDARD**	STANDARD**
DSE7320(ii) CONTROLLER	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SINGLE SKIN BASE TANK	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
BUNDED BASE TANK	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
GLOW PLUGS	NA	NA	NA	NA	NA
ENGINE COOLANT HEATER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
LOW WATER LEVEL SWTCH	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
CE UPGRADE	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
ELECTRONIC GOVERNOR	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SUMP DRAIN KIT	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SUMP DRAIN PUMP	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
430 STAINLESS CANOPY	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
ANTI CONDENSATION HEATER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
THERMISTORS	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
PMG UPGRADE	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
DROOP CT	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
CIRCUIT BREAKER	LAM 400A	LAM 400A	LAM 400A	AAM 630A	AAM 630A

** PRIME POWER OPEN SPECIFICATIONS DO NOT INCLUDE FIRST FILL AS STANDARD. FIRST FILL CAN BE PROVIDED UPON REQUEST.

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