

 **Perkins®**

Diesel Power

STAMFORD®

60WP820

60WP860

60WP820

60WP860

**60Hz Diesel
Generator Sets**

**Your Power.
Our Passion.**

Generator Power Summary

GENERATOR MODEL	PRP kW	PRP kVA	ESP kW	ESP kVA
60WP820	641.9	802.4	711.3	889.2
60WP860	680.9	851.1	751.3	939.1

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

Engine Overview

ENGINE MANUFACTURER	60WP820	60WP860
	PERKINS	PERKINS
MODEL	2806A-E18TTAG5	2806A-E18TTAG7
ENGINE ORIGIN	USA	USA
ASPIRATION	TURBOCHARGED	TURBOCHARGED
GOVERNOR TYPE	ELECTRONIC GOVERNOR	ELECTRONIC GOVERNOR
NO. OF CYLINDERS	6	6
DISPLACEMENT (L)	18.1	18.13
BORE	145mm	145mm
STROKE	183mm	183mm
COOLING TYPE	LIQUID COOLED	LIQUID COOLED
COOLANT CAPACITY (L)	109.5	109.5
OIL CAPACITY (L)	68.0	68.0
MAX EXHAUST MANIFOLD TEMPERATURE	489	473
	FUEL CONSUMPTION L/Hr	
	50% LOAD	92
	75% LOAD	133
	@100% LOAD	187
	@110% LOAD	203

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

	60WP820	60WP860
ALTERNATOR MANUFACTURER	STAMFORD	STAMFORD
MODEL	HCI 634H	HCI 634H
PHASES	3	3
BEARINGS	SINGLE	SINGLE
POLES	4	4
LEADS	12	12
AVR MODEL	MX321	MX321
VOLTAGE REGULATION	± 1%	± 1%
INSULATION CLASS	H	H
EXCITATION	SELF EXCITED	SELF EXCITED
CONNECTION TYPE	SERIES STAR	SERIES STAR
TOTAL HARMONIC CONTENT (NO LOAD)	< 1.5%	< 1.5%
EFFICIENCY	95.1	95.1
SHORT CIRCUIT CAPACITY	> 300%	> 300%
REACTANCES Xd	3.13	3.13
REACTANCES X'd	0.27	0.27
REACTANCES X''d	0.18	0.18

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

	60WP820	60WP860
Meccalte	ECO43-2S	ECO43-2S

Control Panel Overview



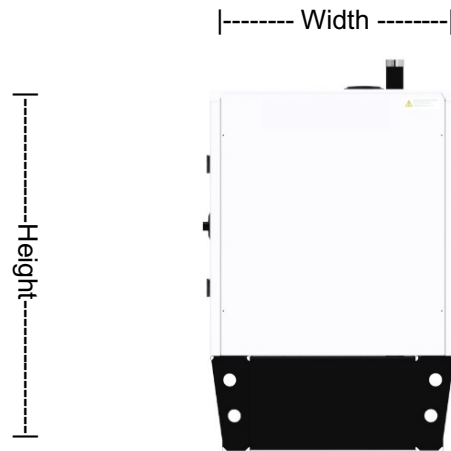
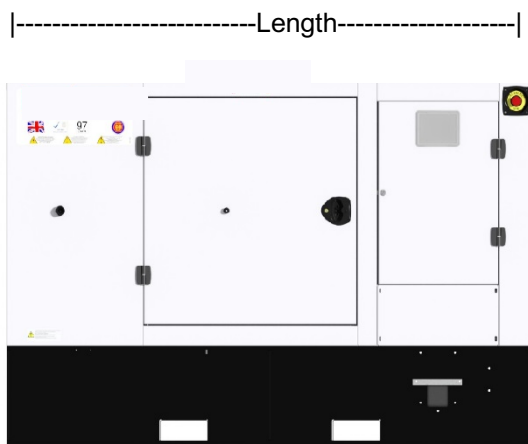
All standard Prime Power Diesel Generators come complete with a Deep Sea Electronics DSE7320mkII control panel.

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, with forklift pockets in the base.
- Integrated silencer built into the base.
- Built in fuel tank with large 260L capacity.
- Designed to fit width ways inside a 40' High Cubed Container, so to maximise freight.
- 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	LENGTH Mm	WIDTH Mm	HEIGHT Mm	WEIGHT Kg
OPEN FRAME	60WP820	1200	3454	1170	2237	4045
	60WP860	1200	3454	1170	2237	4187
CANOPIED	60WP820	NA	6060	2440	2890	5678
	60WP860	NA	6060	2440	2890	5820

SOUND PRESSURE LEVELS dB			
	15m	7m	1m
60WP820	65.9	72.1	83.2
60WP860	66.4	72.7	84.4

60Hz at 1800PRM. 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	60WP820	60WP860
DSE BATTERY CHARGER	STANDARD	STANDARD
FIRST FILL (Oil & Coolant)	STANDARD*	STANDARD*
DSE7320(ii) CONTROLLER	STANDARD	STANDARD
SINGLE SKIN BASE TANK	STANDARD**	STANDARD**
BUNDED BASE TANK	OPTIONAL**	OPTIONAL**
GLOW PLUGS	NA	NA
ENGINE COOLANT HEATER	OPTIONAL	OPTIONAL
LOW WATER LEVEL SWITCH	STANDARD	STANDARD
CE UPGRADE	OPTIONAL	OPTIONAL
ELECTRONIC GOVERNOR	STANDARD	STANDARD
SUMP DRAIN KIT	STANDARD	STANDARD
SUMP DRAIN PUMP	NA	NA
430 STAINLESS CANOPY	NA	NA
ANTI CONDENSATION HEATER	OPTIONAL	OPTIONAL
THERMISTORS	OPTIONAL	OPTIONAL
PMG UPGRADE	STANDARD	STANDARD
DROOP CT	OPTIONAL	OPTIONAL
CIRCUIT BREAKER	AAM 1250A	AAM 1250A

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

** PRIME POWER OPEN SPECIFICATION INCLUDES 1200 LITRE FUEL TANK. CONTAINERISED SPECIFICATION DOES NOT INCLUDE A FUEL TANK.



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