

WPS350S-AU SILENCED 385kVA



Dependable Power

PERKINS Diesel

PL Stamford

Power You Can Count On

DeepSea PLC Control

Technical

Model	WPS350S-AU
Type	Heavy duty
Speed	1500RPM
Phase/Voltage	3-415
Frequency	50Hz
Standby Power	385kVA
Prime Power	350kVA
Noise Level (dba @ 7m)	71.3dba
Fuel Capacity	800 L
Ambient Temp	50deg C

Engine

Manufacturer	Perkins
Model	2206C-E13TAG2
Type	4 Stroke Diesel
Induction	Turbo Charged
Fuel Consumption	85L/hr @ 100% Load
Coolant Capacity	51.4L
Governor	ELECTRONIC
Cubic Capacity	14 L
Oil Capacity	40L

Alternator

Manufacturer	PL Stamford
Model	PL4LP
Type	Brushless
Harmonic Distortion	Less than 5%
Protection Class	IP 23
Insulation Class	Class H

Controls

Controller	Deep Sea 7420
Circuit Breaker	ABB
Battery Isolator	Fitted
Battery Charger	Fitted

Dimensions & Weight

Length	4.56m
Width	1.56
Height	2.56m
Weight Dry	4760kg

Canopy

Skid	Bunded fuel tank with tie down points and fork lift pockets
Canopy	Centre lift with lockable doors, Galvanized sheet, Weather Proof External Emergency Stop fitted.
Paint Finish	Heavy Duty Powder Coat White with Black base

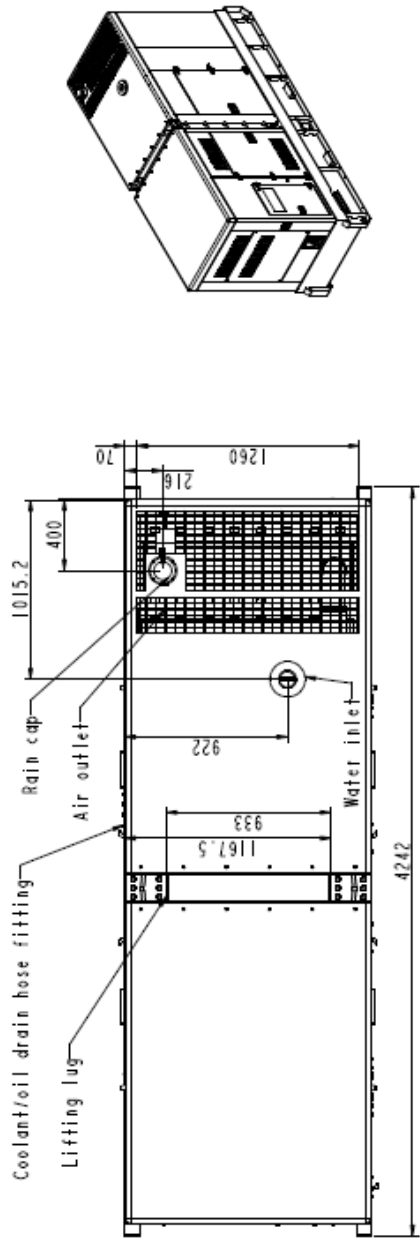
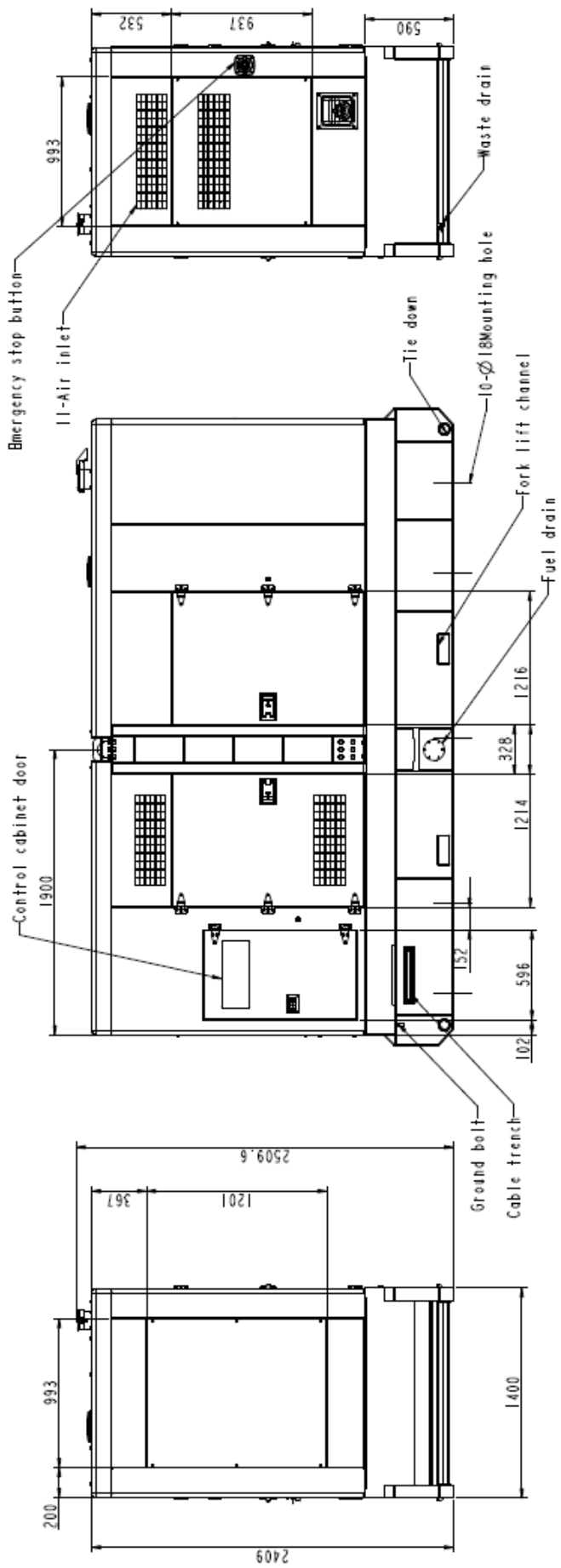
Outlets

BUS ONLY
OUTLET PACKAGE AS OPTION

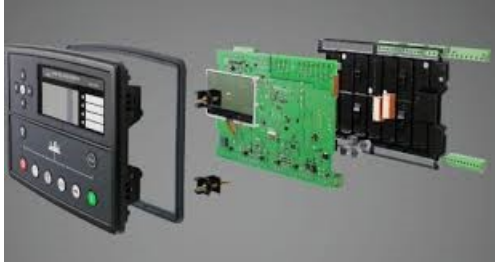
Options

PMG Block Heater Auto Start your own colour
Installation Service, Synchronising Package,
Fire suppression, Mine compliance

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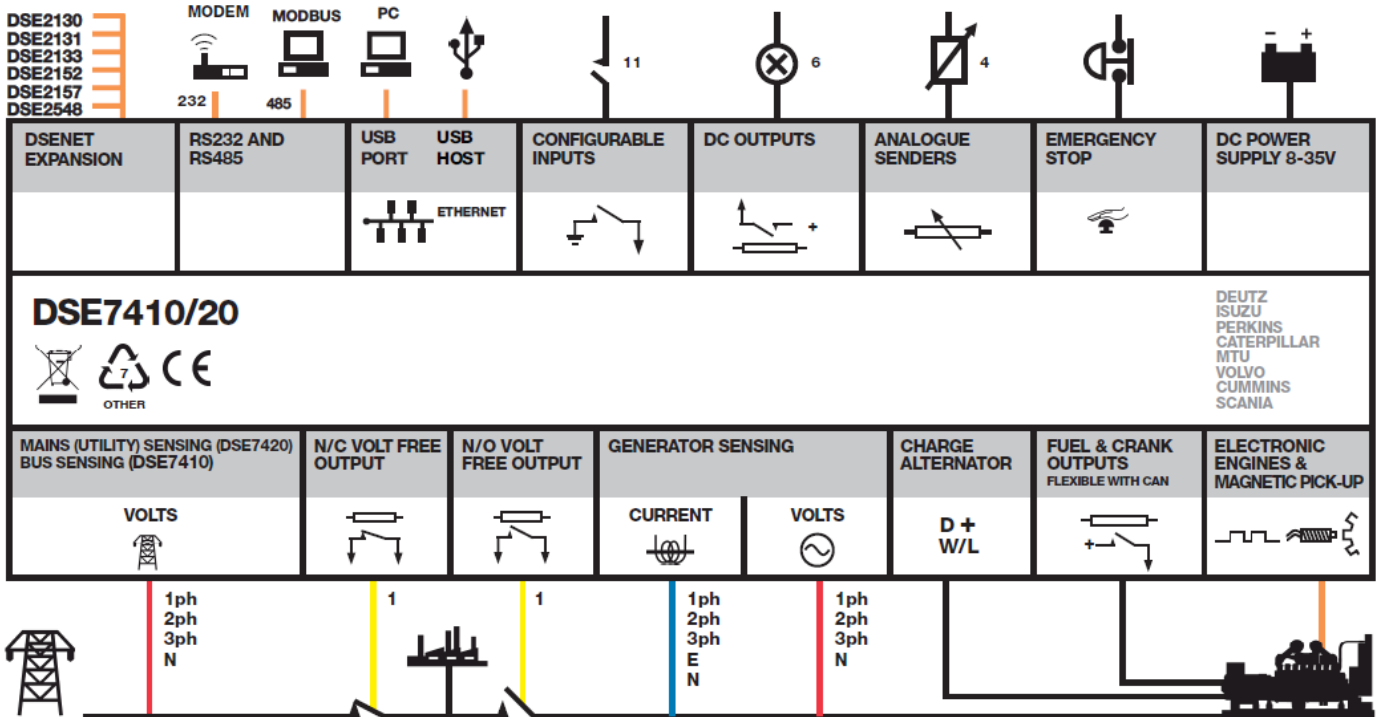
DIMENSIONS	LxWxH	FUEL TANK CAPACITY	DRY WEIGHT
	mm	L	kg
	4242x1400x2509.6	800	4831.19



DSE7410/20

AUTO START & AUTO MAINS FAILURE MODULES

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



FEATURES

The DSE7410 is an Auto Start Control Module and the DSE7420 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

A sophisticated module monitoring an extensive number of engine parameters, the DSE74xx will annunciate warnings, shutdown and engine status information on

the back-lit LCD screen, illuminated LED, remote PC, and audible alarms. The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.

The DSE7400 Series modules are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet industry requirements.

The modules can be easily configured using the DSE Configuration Suite Software. Selected front panel editing is also available.





2200 Series 2206C-E13TAG2 Diesel Engine - ElectropaK

349 kWm at 1500 rpm
381 kWm at 1800 rpm



The 2200 Series engine has been developed using the latest engineering techniques and builds on the strengths of the already very successful 2000 Series family and addresses today's uncompromising demands within the power generation industry. Developed from a proven heavy-duty industrial base, these products offer superior performance and reliability.

The 2206C-E13TAG range are 6 cylinder, turbocharged air-to-air charge cooled diesel engines. It's premium features provide exceptional power to weight ratio resulting in exceptional fuel consumption.

The overall performance and reliability characteristics make this the prime choice for today's power generation industry.

Economic Power

- Mechanically operated unit fuel injectors with electronic control combined with carefully matched turbocharging, give excellent fuel atomisation and combustion with optimum economy.
- Low emissions result from electronically controlled fuel injection.

Reliable Power

- Developed and tested using the latest engineering techniques and finite element analysis for high reliability, low oil usage and low wear rates.
- High compression ratios ensure clean rapid starting in all conditions.
- Perkins global product support is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success.

Compact, Clean and Efficient Power

- Exceptional power to weight ratio and compact size give optimum power density for ease of installation and more cost effective transportation.
- Designed to provide excellent service access for ease of maintenance.

Product Support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world

Certified against the requirements of EU2007 Stage II (EU97/68/EC Stage II) legislation for non-road mobile machinery, powered by constant speed engines and is capable of meeting 1/2 TA Luft (1986) emissions legislation.

Engine Speed (rev/min)	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime Power	350	280	324	434	305	409
	Standby Power	400	320	368	493	349	469
1800	Prime Power	400	320	373	500	349	468
	Standby Power	438	350	407	546	381	511

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1, DIN 6271 Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on an average alternator efficiency and a power factor (cos. ϕ) of 0.8.

Fuel specification: BS 2869: Part 2 1998 Class A2 or BS EN590 or ASTM D975 Class 1D and 2D. Lubricating oil: 15W40 to API CI4.

Rating Definitions

Prime Power: Variable load. Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power: Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.



ALTERNATORS LSA 47.2 - 4 Pole

Electrical and mechanical data

SPECIALLY ADAPTED FOR APPLICATIONS

The LSA 47.2 alternator is designed to be suitable for typical generator applications, such as: backup, standard production, cogeneration, marine applications, rental, telecommunications, etc.

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA 47.2 alternator conforms to the main international standards and regulations:

IEC 60034, NEMA MG 1.22, ISO 8528, CSA, CSA/UL, marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 47.2 is designed, manufactured and marketed in an ISO 9001 version 2000 environment.

TOP OF THE RANGE ELECTRICAL PERFORMANCE

- Class H Insulation.
- Standard 12-wire re-connectable winding, 2/3 pitch, type no. 6 (the LSA 47.2 L9 is available in two versions: 6-wire and 12-wire).
- Voltage range: 220 V - 240 V and 380 V - 415 V (440 V) - 50 Hz / 208 V - 240 V and 380 V - 480 V - 60 Hz.
- High efficiency and motor starting capacity.
- Other voltages are possible with optional adapted windings:
 - 50 Hz: 440 V (no. 7), 500 V (no. 9), 600 V (no. 22 or 23), 690 V (no. 10 or 52)
 - 60 Hz: 380 V and 416 V (no. 8), 600 V (no. 9).
- Total harmonic content < 2%.
- R 791 Interference suppression conforming to standard EN 55011 group 1 class B standard for European zone (CE marking).

EXCITATION AND REGULATION SYSTEM SUITED TO THE APPLICATION

Voltage regulator	Excitation system			Regulation options				
	SHUNT	AREP	PMG	Current transformer for paralleling.	Main paralleling R 726	3-phase wiring: R 731 R 734 (main paralleling)		Remote voltage potentiometer.
R 230	Std	-	-	-	-	-	-	√
R 448	optional	Std	Std	√	√	√	√	√

Voltage regulator accuracy $\pm 0.5\%$.

PROTECTION SYSTEM SUITED TO THE ENVIRONMENT

- The LSA 47.2 is IP 23.
- Standard winding protection for clean environments with relative humidity $\leq 95\%$, including indoor marine environments.
- Options:
 - Filters on air inlet and air outlet (IP 44).
 - Winding protections for harsh environments and relative humidity greater than 95%.
 - Space heaters.
 - Thermal protection for winding.

REINFORCED MECHANICAL STRUCTURE USING FINITE ELEMENT MODELLING

- Compact and rigid assembly to better withstand generator vibrations.
- Steel frame.
- Cast iron flanges and shields.
- Twin-bearing and single-bearing versions designed to be suitable for engines on the market.
- Half-key balancing.
- Greased for life bearings (regreaseable bearings optional)

ACCESSIBLE TERMINAL BOX PROPORTIONED FOR OPTIONAL EQUIPMENT

- Easy access to the voltage regulator and to the connections.
- Possibleclusion of accessories for paralleling, protection and measurement.
- 8 way terminal block for reconnecting voltage reconnection.