STANDARD SPECIFICATIONS

1. ENGINE

FPT/IVECO four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filters.
- Cartridge type fuel filters.
- · Full flow lube oil filters.

All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors).

4. EXHAUST SYSTEM

Silencer noise reduction level	14 (dB)	
Maximum allowable back	10.0 @50 Hz	
pressure(kPa)	15.0 @60 Hz	

5. CIRCUIT BREAKER TYPE

3 pole MCB / MCCB (supplied disconnected and without cables)

CONTROL PANEL

Make	Deep Sea
Model	DSE6110/20

The DSE6110 is an Auto Start Control Module and The DSE6120 is an auto mains(utility) Failure Control Module for single gen-set applications. Both modules have been designed to work with electronic engines providing advance engine monitoringand protection features.

- Transfer between mains(utility) and generator power(DSE6120 only)
- · Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown)
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal
- Low DC voltage
- CAN diagnostics and CAN fail/error

ENGINE / TECHNICAL DATA

Engine Make		FPT/IVE	CO	
Engine Model		CURSOR 1	3 TE7	
Governing class	E	lectronic unit	injector	
Number of Cylinders		6		
Cylinder Arrangement		in line	!	
Bore and Stroke mm		135 x 1	50	
Displacement / Cubic Capacity litres		12.88		
Induction System	Tu	urbo aftercool	er air/air	
Cycle		Diesel 4 st	roke	
Combustion System	Direc	t Electronic C	Common Rail	
Compression Ratio		16.5:1	L	
Flywheel Rotation	Anti-clo	ockwise, view	ed on flywhe	el
Cooling System		Water - co	oled	
Frequency and Engine Speed	50Hz & 1	500rpm	60Hz & 1	.800rpm
	Prime	Standby	Prime	Standby
Gross Engine Power kW	436.0	480.0	464.0	510.0
Fuel Consumption@ 50% load L/hr	51.5	-	57.0	-
@ 80% load L/hr	80.2	-	87.7	-
@ 100% load L/hr	100.6	112.6	110.9	123.3
Total Lubrication System Capacity litres	32	32	32	32
Total Coolant Capacity (engine,rad & hoses) L	38.1	38.1	38.1	38.1
Exhaust Temperature: °C	520	520	510	510
Radiator Cooling Air Flow (Min): m ³ /sec	6.8	6.8	8.5	8.5
Combustion Air Flow: m³/min	26.27	26.27	31.0	31.0
Exhaust Gas Flow: kg/h	2027	2027	2359	2359
Fuel Tank Capacity:litres	735	735	735	735

DIMENSIONS AND WEIGHT*

1	Lengthmm	Widthmm	Heightmm	Weight* kg
	3000	1200	1785	2620
ì	* For clid mounted geneat without enclosure			

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	455.00 KVA	500.50 KVA
	364.00 KW	400.40 KW
480 V, 3 ph, 60 Hz, 1800 rpm	498.31 KVA	548.14 KVA
	398.65 KW	438.51 KW

Applicable Voltages: 220/127 V at 60 Hz only (Consult your dealer for more details)
Ratings at 0.8 Power Factor



500 KVA

POWERED BY:





ALTERNATOR DATA

Make	Stamford
M odel	HCI 544 C
	500
	400
No. of bearings	1
Insulation class	Н
Total Harmonic Content	in linear load $<5\%$, at no load $<1.5\%$
Winding Leads	12
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3
AVR Model	AS440
Overspeed	2250 mn ⁻¹
Voltage Regulation	± 1 %
Short Circuit Capacity	-

The image shown above might not be the final product

STANDARD SPECIFICATIONS

6. FUEL SYSTEM

On Generating Sets up to 2000 KVA, the base frame design can be incorporated with an integral fuel tankwith a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather fuel feed and return lines to the Engine and drain plug.

7. ALTERNATOR 7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dipthermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture.
- **7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)**The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±0.5%. Nominal adjustment by means of a trim pot incorporated on the AVR.
- **7.3 MOTOR STARTING** an overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds.

8. MOUNTING ARRANGEMENT

8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe

- **8.2 COUPLINGThe** Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.
- 8.3 ANTI-VIBRATION MOUNTING PADS anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.The Fan & Fan Drive along with the Battery Charging
- **8.4 SAFETY GUARDS** The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personal protection.

9. FACTORY TESTS

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.
- 10.EQUIPMENT FINISHING all mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

RATINGS DEFINITION

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

STANDARD REFERENCE CONDITIONS

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and altitudes. De-ration may apply,please consult your dealer for specific site ratings.

STAUNCH Generators are assembled Some of the specifications are not standard on all Genset models. in facilities certified to ISO 9001 All information in this document is substantially correct at time of printing and may be altered subsequently.

Generating Set pictured may include optional accessories.

- **11. DOCUMENTATIONS a** set of Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets accompany the Generator.
- **12. QUALITY STANDARDS** The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.
- **13. WARRANTY** All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)In line with continuous product development, we reserve the right to change specifications without notice.

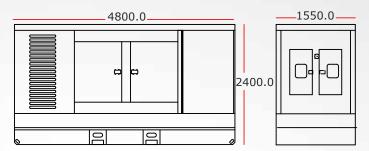
For further information on all of the standard and optional features accompanying this product please contact your local dealer or visit:

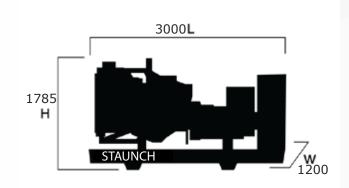
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AVAILABLE OPTIONS & ACCESSORIES

We offer a range of optional features and accessories to tailor our generating sets to meet your power needs.





ACCESSORIES

- switches
- Load banks
- Auxiliary fuel tanks
- Manual & automatic
- Genuine spare partstransfer

OPTIONS

- Water jacket heater
- A variety of generating set
- Additional protection alarms
- Water fuel seperator control and synchronizing and shutdowns
- panels
- Battery charger