



60 Hz

3 PHASE

GENERATING SET MODEL (UPSC513)

Output Ratings	Prime	Standby
380-415 V, 3ph, 50 Hz, 1500 rpm	450 KVA	500 KVA
	360 KW	400 KW
380-415 V, 3ph, 60 Hz, 1800 rpm	513 KVA	563 KVA
	410 KW	450 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	CUMMINS	
Engine Model	KTA19-G3	
Governing Type	Electrical	
Number of Cylinder/ Arrangement	6/In-line	
Bore and Stroke (mm)	159 mm x 159 mm	
Compression Ratio	13.9 : 1	
Displacement (L)	19 L	
Aspiration and Cooling	Turbocharged and After-cooled	
Frequency regulation, steady state	±0.25%	
Engine air flow	533-647 L/s	
Exhaust temperature	491-532°C	
Frequency and Engine Speed	50 Hz / 1500 rpm	60 Hz / 1800 rpm
Fuel Consumption @50% load	51.8 L/hr	62.7 L/hr
@75% load	74.7 L/hr	88 L/hr
@100% load	98.8 L/hr	113.3 L/hr
@110% load	109.6 L/hr	123.3 L/hr
Total oil capacity w/ filter	50 L	
Engine capacity	111.7 L	
Max Water Temperature	104°C	
Thermostat	82-93°C	

ALTERNATOR

Make	UPS / Leroy Somer
Model	UPS354D / TAL A47-B
No. of bearings	1
Pole	4
Coupling	Direct
Exciter Type	SHUNT
Insulation	H/H
Degree of protection	IP23
AVR Model	R150
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

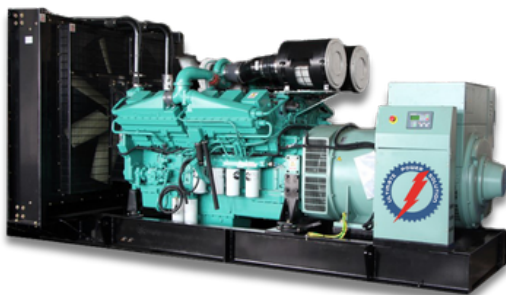
CONTROL PANEL

Make	DeepSea
Model	6110/20 SERIES

The DSE 6110/20 Series., is an Auto Start Control for single genset application. It includes a LCD display which clearly shows the status of engine all the times. This module can either programmed using the front panel or by using configuraton sale PC software.

Metering and Alarm Indications:

- Generator frequency
- UnderSpeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- LOW DC voltage
- CAN diagnostic and CAN fail/error

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513 KVA

3 PHASE

60 Hz

STANDARD SPECIFICATIONS

450 KVA

50 Hz

3 PHASE

1. ENGINE

Cummins four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTRATION SYSTEM

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

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

Exhaust gas flow 1489-1713 L/s
Maximum allowable back pressure 10 (kPa)

5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

6. Fuel System

The baseframe design is incorporated with an integral fuel tank with 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 dip thermosetting 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 or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 1\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

8. MOUNTING ARRANGEMENT

8.1 COUPLING

- The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.2 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.

8.3 SAFETY GUARDS

- The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and its 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.

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning/Fault Finding instruction leaflets are accompanied with the Generator.

12. QUALITY STANDARDS

The equipment meets the following standards: B84999, B65000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO8528.

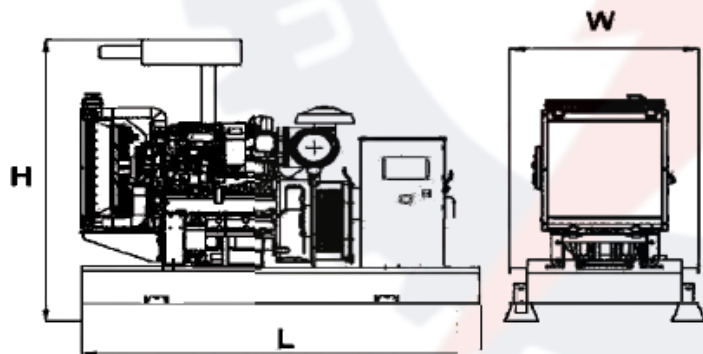
13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours, 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.

STANDARD GENERATOR DIMENSION

Standard Generator

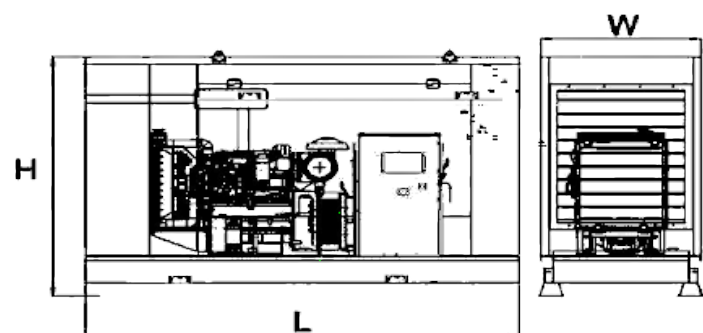


Length, L: 3362 mm

Height, H: 1936 mm

Width, W: 1150 mm

Generator with Soundproof Canopy



Length, L: 4786mm

Height, H: 2537 mm

Width, W: 1356 mm