

HCM Series Diesel Generator Sets Powered by Cummins Engines

HCM143 50HZ



Ratings

Standby Power	kVA	145
	kW	116
Prime Power	kVA	135
	kW	108
Voltage type		50Hz, 380V/220V, 3 phases and 4 wires



Ratings at 0.8 power factor

- 1) Standby Power - Power available at a variable load when a main power network fails, running up to a maximum of 500 hours per year. Over load is not allowed.
- 2) Prime Power - Power available at variable load in lieu of main power network. An overload of 10% is allowed for one hour in every twelve hours of operation.

Performance Data

Engine Brand & Model		Cummins 6BTAA5.9-G2
Alternator Brand & Model		LSA44.3M6
Control System		Deepsea DSE6120
Standard Noise Level@7m (Soundproof Sets)		80 dBA
Circuit Breaker Type		4 Poles MCCB
Frequency & Phase		50Hz, 3Phases + 4Wires
Engine Speed (RPM)		1500
Fuel Consumption (L/hr)	100% Load	30
	75% Load	23
	50% Load	16
	25% Load	9.0

Dimensions and Weights

Content		Open type	Silent type
Dimensions: (mm)	L	2380	3200
	W	870	1200
	H	1480	1650
Weights (kg)		1220	2500

Engine Brand & Model: Cummins 6BTAA5.9-G2

Standard Cummins Engine Data

No. of Cylinders	6L	Gross Engine Power(kW)	Prime	120
Cycle	4 Stroke		Standby	130
Bore / Stroke	102mm×120mm	Compression Ratio		16.5: 1
Induction	Turbocharged	Displacement (L)		8.3 L
Cooling Method	Positive Water Cooling Cycle	Governing Type		Electronic
Starting method	24V DC motor	Coolant capacity (L)		27
Lubricant Oil	15W40-CF4 or above grade	Lube System Capacity(L)		16.4

Alternator Brand & Model: Leroy somer LSA44.3M6, 50Hz.

Standard Faraday Alternator Data

Continuous power	125kVA/100kW	Efficiencies (%)	92.1
Power factor	0.8	Insulation class	H
Excitation system	Brushless, self-excited	Temperature rise	125K
A.V.R.	Standard	Enclosure protection	IP23
Voltage regulation	± 1 %	Winding leads	6
Bearing number	1 bearing	Ambient temperature	40°C

Controller Brand & Model: Deepsea DSE6120



The DSE6120 is an Auto Start & Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. It monitors speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level, and the modules will display warnings, shutdown and engine status information on the backlit LCD screen and illuminated LED.

The controller offers electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engine versions and offer a number of flexible inputs, outputs and engine protections so the system can be easily adapted to suit a wide range of application demands.

The controller can also be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.

Optional Configuration

Engine	Alternator	Control System	Canopy	Voltages
<ul style="list-style-type: none">● Jacket Water Preheater● Oil Preheater	<ul style="list-style-type: none">● Winding Temperature● Measuring Instrument● Alternator Space Heater● PMG● Marine grade Protection (anti-corrosion)	<ul style="list-style-type: none">● Remote control panel● ATS	<ul style="list-style-type: none">● Trailer● Galvanized powder coating	<ul style="list-style-type: none">● 440/254V● 380/220V● 220/127V● 208/120V

Following spare parts list is optional according to customer requirements.

- FILTER, LUBRICATION
- FILTER, FUEL
- FILTER, AIR
- BELT, ALTERNATOR
- BELT, FAN



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We reserve the right to change above information about model, technical specification, color, configuration and accessories without prior notice. Please contact with us before confirmation.