

General Performance Data

Engine	Brand	Cummins
	Model	6BT5.9G2
Control module	Deep Sea 6120	
Starting voltage	V	24
Frequency	Hz	50
Number of phases	3	

	Prime	Standby
Power kVA	100	110
Power kW	80	88
Rated speed	r.p.m	1500
Standard voltage	V	400 230
Available voltages	V	380/220 415/240
Power factor	Cos Phi	0.8

Open



Dimension		
Length (L)	mm	2150
Height (H)	mm	1025
Width (W)	mm	1485
Weight	Kg	1080
Fuel Tank	L	260

Silent



Dimension		
Length (L)	mm	2950
Height (H)	mm	998
Width (W)	mm	1250
Weight	Kg	1600
Fuel Tank	L	175

Fuel Consumption

Rated Output	g/KW.h	L/h
100% Standby	0000	26.5
100% Prime	0000	24.2
75% Prime	0000	18.2
50% Prime	0000	12.5
25% Prime	0000	N/D

Standards Followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE

General Engine Data

Engine brand	Cummins
Engine ref.	6BT5.9G2
Engine type	4-stroke diesel
Governor type	Electronic
Injection	Direct
Aspiration	Turbocharged
Number of cylinders and arrangement	6-L
Bore and stroke	mm 102 * 120

Displacement	L	5.9
Cooling system	Water-cooled	
Lube oil consumption with full load	0.5% 1% of fuel	
Compression ratio	17.3:1	
Engine oil capacity	L	16.4
Total coolant capacity	L	22.4
Air filter	Type	Dry

Diesel engine	Dry air filter
4-stroke cycle	Radiator with pusher fan
Water-cooled	Electronic governor
12V electrical system	Hot parts protection
Water separator filter	Moving parts protection

Optionals

Water jacked heater
Radiator water level sensor
Oil heater
Heavy duty air filter



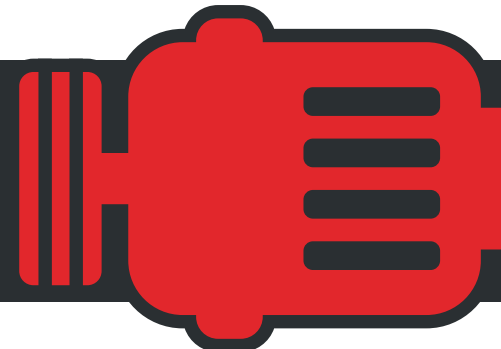
Alternator Specifications

Number of phase	3
Power factor	0.8
Poles	4
Winding Connections (standard)	Star-serie
Insulation	H class
Enclosure (according IEC-34-5)	IP23

Excitation system	Self-Exited, brushless
Voltage regulator	AVR (electronic)
No. of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (vacuum-impregnation)

Optionals

Self-excited and self-regulated	Alternator pre-heater
IP23 protection	Winding temp. measuring instrument
H class insulation	PMG / AREP / MAUX



Application Data

Fuel system

	Open	Silent
Fuel oil specifications	Diesel	
Standard fuel tank capacity	L 260	175

Air system

Intake air flow	L/s	108
Cooling air flow	m ³ /s	2.532

Exhaust system

Maximum exhaust temperature	°C	565
Exhaust gas flow	L/s	280
Maximum allowed back pressure	kPa	10

Starting system

Starting power	kW	4.5
Recommended battery	Ah	60
Number of batteries		2
Auxiliary voltage	Vdc	24V

Genset version

Steel chasis	High mechanical strength
Emergency stop button	Epoxy polyester powder coating
Anti-vibration shock absorbers	Fuel tank drain plug
Chassis with integrated fuel tank	Steel residential silencer - 20dbA attenuation
Fuel level gauge	Battery charger

Optionals

Trailer type



Water-cooled



Three phase



50 Hz



Diesel



Stackable canopy

Power definition

Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

Standard reference conditions

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing.

Features of the control panel	Basic Model (Standard)	Advanced Model (Optional)
Voltage between phases	o	o
Voltage between neutral and phase	o	o
Current intensities	o	o
Frequency	o	o
Apparent power (kVA)	o	o
Active power (kW)	o	o
Reactive power (kVAr)	o	o
Power factor	o	o
Voltage between phases	o	o
Emergency stop	o	o
Binary inputs	6/6	7/7
Analog inputs	3	3
2x10A Current outputs	o	-
I/O Configuration	o/o	o/o
D+ Function	o	o
Speed sensor	o	o
Amf/Mrs	o/o	o/o
GCB/MCB	o	o/o
3ph voltage measurement Gen./Mains	o	o/o
3ph current measurement	o	o
kW / kWh / kVA	o	o
Engine reading	o	o
Engine protection	o	o
Alternator protection	o	o
Earth current protection	o	o
History file	150	350
RTC/Battery	o/-	o/o
PLC	-	-
4G	*	-
Airgate	-	*
ECU CAN	o	o
MODBUS	*	*
MODBUS IP	*	*
SNMP	-	*
SNMP TRAPS	-	-
RS232	*	*
RS485	*	*
GSM/GPRS modem	*	*
Remote screen	*	*
Software for PC	*	*

Standard: o Optional: x Not Available: -