

TC310LS 60Hz POWERED BY CUMMINS SERIES**TECHNICAL SPECIFICATIONS****DIESEL GENERATING SET 220/127V-60Hz-3Phase**

Model	TC310LS	
Power(ESP)	kVA/kW	308/246
Power(PRP)	kVA/kW	280/224
Starter Voltage	V	24
Rated Current	A	808
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	62L / h
Fuel Tank Capacity	L	Open Type : 303 / Silent Type: 491
Noise level	dB(A)@7m	Silent Type: ≤80

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2576mm×1012mm×1668.5mm	1929Kg
Silent Type	3856mm×1256mm×2068mm	2879Kg

STANDARDS:**Genset:** GB/T2820—2009,ISO8528**Alternator:** LEROY SOMER, TAL-A46-D**Diesel Engine:** CUMMINS , 6LTAA8.9-G3**Standby Power:** Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.**Prime Power:** Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.**CONFIGURATION:****Standard:** Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).**Optional:** Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.**Accessories:** Silencer, bellow, exhaust silencing system accessories (with the

ENGINE Specification

Manufacturer: CUMMINS

Model	6LTAA8.9-G3
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6 / L
Displacement	8.9 L
Bore and Stroke	114 mm×145 mm
Compression ratio	16.6 : 1
Max. stand by power at rated RPM	282KW
Frequency regulation , steady state	
Governor : type	Electrical
Aspiration and Cooling	Turbocharged and Charge Air Cooled

Exhaust System

Exhaust gas flow	838L/sec
Exhaust temperature	520°C
Max back pressure	10kpa

Fuel System

Fuel consumption100% (of the Prime Power)	62L / h
Fuel consumption75% (of the Prime Power)	46L / h
Fuel consumption50% (of the Prime Power)	31L / h
Fuel consumption110% (of the Prime Power)	70L / h

Oil system

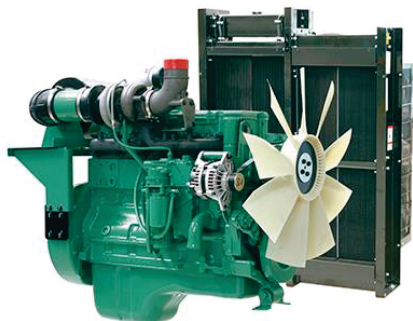
Total oil capacity w/filters	27.6L
------------------------------	-------

Air intake

Engine air flow	315L/sec
-----------------	----------

Coolant System

Radiator & engine capacity	11.1L
Max water temperature	104°C
Thermostat	82-95°C



Cummins engines with advanced design, reliable performance, durable operation.

Alloy-steel and connecting steel-lever, high durability

High combustion efficiency and low fuel consumption, work continuously

P/T pump injection technology, low cost, completely combustion

ALTERNATOR Specification

Manufacturer: LEROY SOMER

Type	TAL-A46-D
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	SHUNT
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	R150
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	12

FEATURES

- Tight control of procedures right from the initial sales offering through to delivery to the customer, including the design process, manufacturing start-up and production.
- A total quality policy based on making continuous progress in improving operational procedures, involving all departments in the company in order to give customer satisfaction as regards delivery times, conformity and cost.
- Indicators used to monitor process performance.
- Corrective actions and advancements with tools such as FMECA, QFD, MAVP,
- MSP/MSQ and Hoshin type improvement workshops on flows, process re-engineering, plus Lean Manufacturing and Lean Office.
- Annual surveys, opinion polls and regular visits to customers in order to ascertain and detect their expectations.



STANDARDS

IEC 60034, NEMA MG 1.32 - 33, ISO 8528/3, CSA, UL 1446, UL 1004
on request and depending on voltages, marine.

Note: All data sheets are for reference only and subject to change without prior notice.

Control Panel

Model: DSE 6120

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DIMENSIONS

OVERALL

215mm x 158mm x 42mm
(8.5" x 6.2" x 1.6")

PANEL CUTOUT

182mm x 137mm
(7.2" x 5.4")

MAXIMUM PANEL THICKNESS

8 mm
0.3"



KEY FEATURES

Back-lit text LCD display
Front panel editing
LED and LCD alarm indication
Power Save mode
CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
PC and front panel configuration
6 Digital inputs
3 Analogue inputs
6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
Configurable timers and alarms
Alternative configuration
Event Log (10)
Remote Start input

3 Phase generator monitoring
Current Monitoring and protection
3 Phase Mains (Utility) monitoring (DSE6120 only)
Test button (DSE6120 only)
Battery voltage monitoring
Engine pre-heat
Hours counter
Comprehensive shutdown or warning on fault condition

KEY BENEFITS

Automatically transfers between mains (utility) and generator power (DSE6120 only)
Hours counter provides accurate information for monitoring and maintenance periods

User-friendly set-up and button layout
Multiple engine parameters are monitored simultaneously
Module can be configured to suit individual applications
Compatible with a wide range of CAN engines
Uses DSE Configuration Suite PC software for simplified configuration
IP65 rating (with optional gasket) offers increased resistance to water ingress
Licence-free PC software