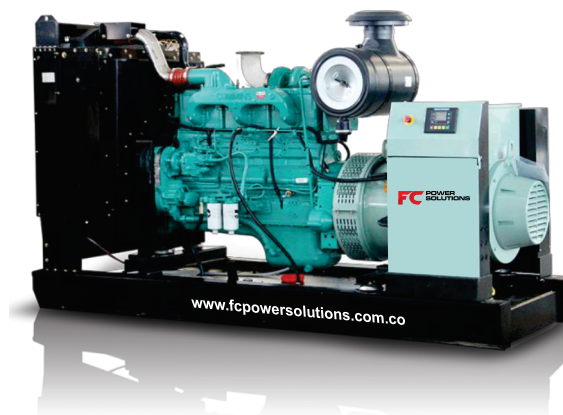


TC500LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 220/127V-60Hz-3Phase

Model	TC500LS	
Power(ESP)	kVA/kW	500/400
Power(PRP)	kVA/kW	438/350
Starter Voltage	V	24
Rated Current	A	1312
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	100L / h
Fuel Tank Capacity	L	Open Type : 607/ Silent Type: 919
Noise level	dB(A)@7m	Silent Type: ≤82

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	3376mm×1389mm×2131mm	4183 Kg
Silent Type	5306mm×1566mm×2585mm	5478 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: LEROY SOMER, TAL-A473-A

Diesel Engine: CUMMINS , KTA19-G2

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 matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).



Una compañía de servicio a su servicio

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ENGINE Specification

Manufacturer: CUMMINS

Model	KTA19-G2
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6 / L
Displacement	19L
Bore and Stroke	159mm×159 mm
Compression ratio	14.5: 1
Max. stand by power at rated RPM	448KW
Frequency regulation , steady state	± 0.25%
Governor : type	Electrical
Aspiration and Cooling	Turbocharged & Aftercooled

Exhaust System

Exhaust gas flow	1699L/s
Exhaust temperature	513°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	100L / h
Fuel consumption75% (of the Prime Power)	78.3L / h
Fuel consumption50% (of the Prime Power)	56.6L / h
Fuel consumption110% (of the Prime Power)	115.7L / h

Oil system

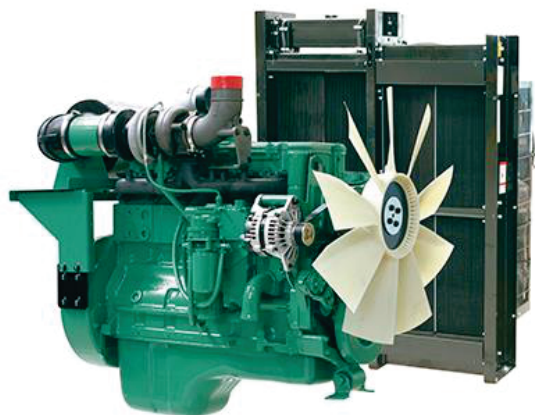
Total oil capacity w/filters	50L
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Air intake

Engine air flow	623L/s
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Coolant System

Radiator & engine capacity	111.7L
Max water temperature	104°C
Thermostat	82-93°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

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



ALTERNATOR Specification

Manufacturer: LEROY SOMER

Type	TAL-A473-A
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	R250
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