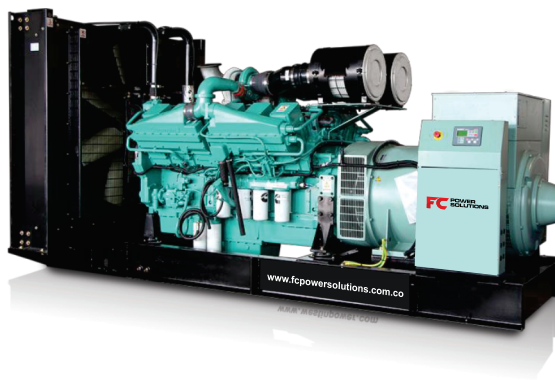


TC1040LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 440/254V-60Hz-3Phase

Model	TC1040LS	
Power(ESP)	kVA/kW	1038/830
Power(PRP)	kVA/kW	938/750
Starter Voltage	V	24
Rated Current	A	1362
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	208.4L / h
Fuel Tank Capacity	L	
Noise level	dB(A)@1m	Silent Type: ≤85

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	4270mm*2100mm*2480mm	7645kg
Silent Type	5796mm*2156mm*2548mm	10823kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528**Alternator:** LEROY SOMER, TAL-A49-C**Diesel Engine:** CUMMINS , KTA38-G2B**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

gerencia@fcpowersolutions.com.co / 310 834 9075 / Carrera 48 # 166-66, oficinas 105 C
Bogotá-Colombia // www.fcpowersolutions.com.co

ENGINE Specification

Manufacturer: CUMMINS

Model	KTA38-G2B
Engine speed Rated	1800 RPM
Cylinder /Arrangement	12/V
Displacement	38L
Bore and Stroke	159mm×159 mm
Compression ratio	14.5: 1
Max. stand by power at rated RPM	920KW
Frequency regulation , steady state	± 0.25%
Governor : type	Electrical
Aspiration and Cooling	Turbocharged & Aftercooled

Exhaust System

Exhaust gas flow	3679L/s
Exhaust temperature	502°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	208.4L / h
Fuel consumption75% (of the Prime Power)	160.2L / h
Fuel consumption50% (of the Prime Power)	113.3L / h
Fuel consumption110% (of the Prime Power)	230.1L / h

Oil system

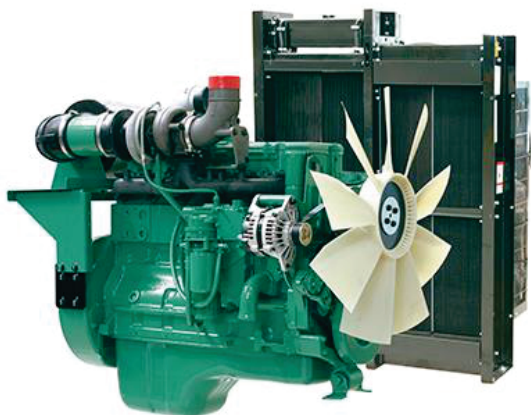
Total oil capacity w/filters	135.1L
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Air intake

Engine air flow	1369L/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-A49-C
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 8610

SYNCHRONISING AUTO START LOAD SHARE MODULE

DIMENSIONS

OVERALL

240mm x 181mm x 42mm
(9.4" x 6.8" x 1.6")

PANEL CUTOUT

220mm x 160mm
(8.7" x 6.3")



KEY FEATURES

Comprehensive synchronizing & load sharing capabilities
Built-in governor and AVR control
Base load (kW export) functionality
Positive & negative kVAr export control
Mains (utility) de-coupling protection
Generator power (kW, kV Ar, kV A& pf) monitoring
Overload (kW & kV Ar) protection
Reverse power (kW & kV Ar) protection
Unbalanced load protection
Independent earth fault protection
Advanced integral PLC editor
11 Configurable inputs
8 Configurable outputs
Configurable flexible sensor inputs
DSENet® expansion compatibility
User configurable RS232, RS485 and Ethernet communications
Remote SCADA monitoring via various DSE software applications

MODBUS RTU & TCP support
User configurable MODBUS pages
Advanced SMS control and fault messaging (additional GSM modem required)
Easy access diagnostic pages including modem diagnostic pages
Data logging and trending
CAN, MPU and Frequency speed sensing
Tier 4 CAN engine support
“Protections disabled” feature
Front panel editing with PIN protection
Fully configurable using DSE Configuration Suite PC software via USB
4 Line back-lit LCD text display
LED and LCD alarm indication
Configurable display languages
USB connectivity
Customizable status screens
Five key menu navigation
3 Configurable maintenance alarms
Multiple date and time run scheduler
Manual fuel pump control
Fuel usage monitor and low fuel level protection

Charge alternator failure protection
Load switching (load shedding and dummy load control)
Configurable event log (250)
Backed up real time clock

KEY BENEFITS

132 x 64 pixel ratio display for clarity
Real-time clock provides accurate event logging
Ethernet communication, provides built in advanced remote monitoring.
Can be integrated into building management systems (BMS) and programmable logic control (PLC)
Increased input and output expansion capability via DSENet®
Licence-free PC software
IP65 rating (with supplied gasket) offers increased resistance to water ingress
Advanced Internal PLC editor allows user configurable functions to meet specific application requirements.