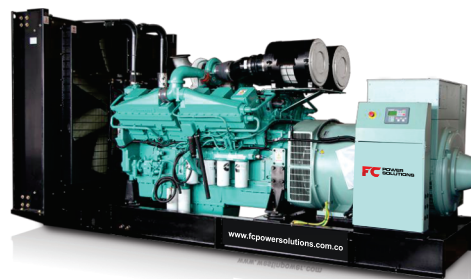


TC1250LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

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

Model	TC1250LS	
Power(ESP)	kVA/kW	1250/1000
Power(PRP)	kVA/kW	1125/900
Starter Voltage	V	24
Rated Current	A	3280
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	250.6L / h
Fuel Tank Capacity	L	
Noise level	dB(A)@1m	Silent Type: ≤87

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	4270mm*2100mm*2480mm	8326kg
Silent Type	12192mm*2438mm*2896mm	15276kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528**Alternator:** LEROY SOMER, TAL-A49-E**Diesel Engine:** CUMMINS, KTA38-G4**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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Bogotá-Colombia // www.fcpowersolutions.com.co

ENGINE Specification

Manufacturer: CUMMINS

Model	KTA38-G4
Engine speed Rated	1800 RPM
Cylinder /Arrangement	12/V
Displacement	38L
Bore and Stroke	159mm×159 mm
Compression ratio	13.9: 1
Max. stand by power at rated RPM	1112KW
Frequency regulation , steady state	± 0.25%
Governor : type	Electrical
Aspiration and Cooling	Turbocharged & Aftercooled

Exhaust System

Exhaust gas flow	3967L/s
Exhaust temperature	524°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	250.6L / h
Fuel consumption75% (of the Prime Power)	195.2L / h
Fuel consumption50% (of the Prime Power)	139.8L / h
Fuel consumption110% (of the Prime Power)	277.1L / h

Oil system

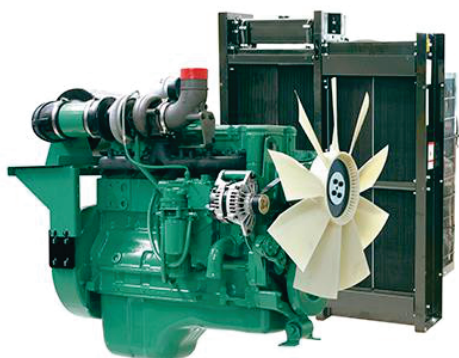
Total oil capacity w/filters	135.1L
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Air intake

Engine air flow	1435L/s
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Coolant System

Radiator & engine capacity	199.5L
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-E
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: easYgen-1600

SYNCHRONISING AUTO START LOAD SHARE MODULE

OVERALL

209mm x 166mm x 45mm

PANEL CUTOUT

186mm x 141mm

KEY FEATURES

With ARM-based 32-bit SCM, highly integrated hardware, high reliability level

Multilingual interface (English, Chinese, Spanish, Russian, Portuguese, Turkish, Polish, and French) making commissioning

Improved LCD wear-resistance and scratch resistance due to hard screen acrylic

Silicon panel and pushbuttons for better operation in high-temperature environment

RS485 communication port enabling remote control, remote measuring, remote communication via ModBus protocol

Suitable for 3-phase 4-wire, 3-phase 3-wire, single phase 2-wire, and 2-phase 3-wire systems with voltage 120/240 V and frequency 50/60 Hz

easYgen-1600 only: Collects and shows 3-phase voltage, current, power parameter, and frequency of generator and additionally 3-phase mains voltage. Mains Generator Line

voltage (UAB, UBC, and UCA) Line voltage (UAB, UBC, and UCA) Phase Phase sequence, frequency, Load current IA, IB, IC

easYgen-1600 only: For Mains, controller has over and under voltage, over and under frequency, loss of phase and phase sequence wrong detection functions

3 fixed analog sensors: Engine temperature, oil pressure, and fuel level

Protection: automatic start/stop of the genset

Tier 4 CAN engine support

easYgen-1600 only: ATS (Auto Transfer Switch) control with perfect failure indication and protection function

All output ports are relay-out

Logon wallpaper and display time are user-defined

With maintenance function. Actions (warning or shutdown) can be set when maintenance time out

Waterproof security level IP55 due to rubber seal installed between the



controller enclosure and front panel

Users can reset total run time and total electric energy for convenience.

Users can define HMI status screens (content) via drag-and-drop

KEY FUNCTIONS

Protection: automatic start/stop of the genset, ATS (Auto Transfer Switch) control with failure indication and protection function

All output ports are relay-out

Curves of temperature, oil pressure, fuel level can be used directly and users can define the sensor curves by themselves

Multiple crank disconnect conditions (generator frequency, speed sensor, oil pressure) are optional

Event log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether with load or not)

Logon wallpaper and display time are user-defined

Maintenance function: Actions (warning or shutdown) can be set when maintenance time out