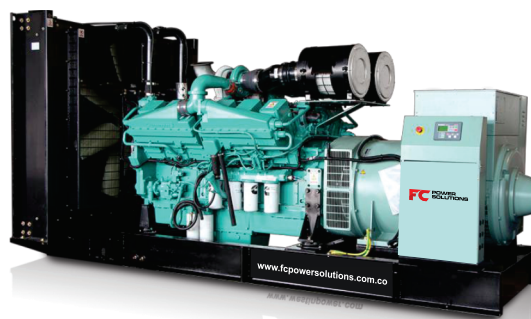


TC1250LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 460/266V-60Hz-3Phase

Model	TC1250LS	
Power(ESP)	kVA/kW	1250/1000
Power(PRP)	kVA/kW	1125/900
Starter Voltage	V	24
Rated Current	A	1569
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: ≤85

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	4292mm×2100mm×2480mm	8326Kg
Silent Type	5796mm×2156mm×2548 (3304) mm	10106 Kg

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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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

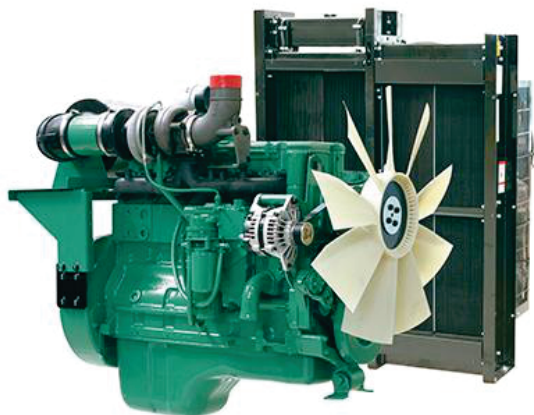
Total oil capacity w/filters	135.1L
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Air intake

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: DSE 7420MKII

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DIMENSIONS

OVERALL

245mm x 184mm x 51mm
(9.6" x 7.2" x 2.0")

PANEL CUTOUT

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

WEIGHT

980g (0.98kg)



KEY FEATURES

4-Line back-lit LCD text display
Multiple Display Languages
Five key menu navigation
LCD alarm indication
Heated display option available.
DSENet expansion compatibility
Data logging facility upto 20 parameters
Internal PLC editor
Fully configurable via PC using USB,
RS232, RS485 and Ethernet
communication
Power save mode
3 phase generator sensing and protection
3 phase mains (utility) sensing and
protection (DSE7420 MKII only)
Automatic load transfer control
(DSE7420 MKII only)
Front panel configuration with
multi-level PIN protection
Generator current and power monitoring

(kW, kvar, kVA, pf)
Mains current and power monitoring
(kW, kvar, kVA, pf)
Over current protection
Unbalanced load protection
Independent earth fault protection
Breaker control via fascia buttons
Fuel and start outputs configurable
when using CAN
6 configurable DC outputs
2 configurable volt-free relay outputs
6 configurable analogue/digital inputs
Support for 0 V to 10 V & 4 mA to 20
mA sensors
Support for 3 k Ω resistive sensors
8 configurable digital inputs
CAN, MPU and alternator frequency
speed sensing in one variant
Real time clock
Manual and automatic fuel pump
control

Engine pre-heat and post-heat
functions

Engine run-time scheduler

KEY BENEFITS

Automatically transfers between
mains (utility) and generator power
(DSE7420 MKII only) for convenience
Hours counter provides accurate
information for monitoring and
maintenance periods
User-friendly set-up and button
layout for ease of use
Multiple parameters are monitored
& displayed simultaneously for
full visibility
PLC editor allows user
configurable functions to meet user
specific application requirements.
The module can be configured to
suit a wide range of applications
for user flexibility.



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