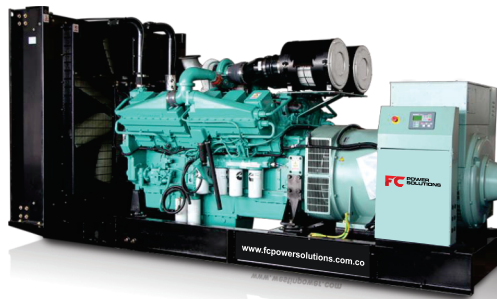


TC1375LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

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

Model	TC1375LS	
Power(ESP)	kVA/kW	1375/1100
Power(PRP)	kVA/kW	/
Starter Voltage	V	24
Rated Current	A	1725
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	NA
Fuel Tank Capacity	L	/
Noise level	dB(A)@1m	

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	4350mm*2100mm*2263mm	8496kg
Silent Type	6006mm*2156mm*2550mm	11496kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528**Alternator:** LEROY SOMER, LSA50.2 M6**Diesel Engine:** CUMMINS , KTA38-G9**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-G9
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	1220KW
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)	NA
Fuel consumption75% (of the Prime Power)	NA
Fuel consumption50% (of the Prime Power)	NA
Fuel consumption110% (of the Prime Power)	270.L / h

Oil system

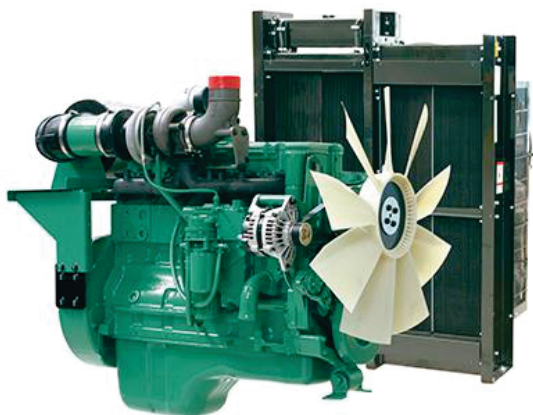
Total oil capacity w/filters	135.1 L
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Air intake

Engine air flow	1435L/s
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Coolant System

Radiator & engine capacity	123.8 L
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	LSA50.2 M6
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	PMG
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	D350
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6

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

- 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.