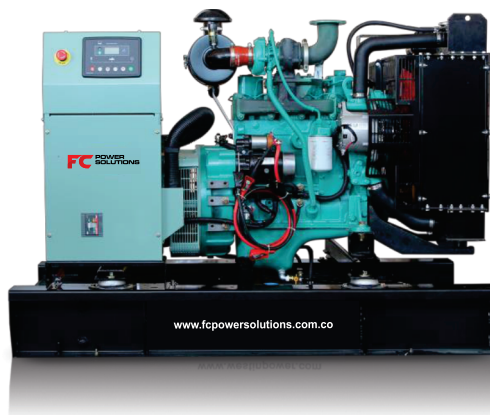


TC22LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 240/120V-60Hz-1Phase

Model	TC22LS	
Power(ESP)	kVA/kW	22/22
Power(PRP)	kVA/kW	20/20
Starter Voltage	V	24
Rated Current	A	92
Rated rotation speed	r/min	1800
Power Factor		1
Fuel Consumption	L/hour	7.1L / h
Fuel Tank Capacity	L	Open Type :158 / Silent Type:278
Noise level	dB(A)@1m	Silent Type:

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	1650mm*820mm*1355mm	807kg
Silent Type	2396mm*1056mm*1723mm	1196kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: LEROY SOMER, TAL A42 A-S

Diesel Engine: CUMMINS , 4B3.9-G11

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).



ENGINE Specification

Manufacturer: CUMMINS

Model	4B3.9-G11
Engine speed Rated	1800 RPM
Cylinder /Arrangement	4 / L
Displacement	3.9 L
Bore and Stroke	102 mm×120 mm
Compression ratio	18.0 : 1
Max. stand by power at rated RPM	26KW
Frequency regulation , steady state	
Governor : type	Electrical
Aspiration and Cooling	Naturally Aspirated

Exhaust System

Exhaust gas flow	73L/sec
Exhaust temperature	352°C
Max back pressure	10kpa

Fuel System

Fuel consumption100% (of the Prime Power)	7.1L / h
Fuel consumption75% (of the Prime Power)	5.6L / h
Fuel consumption50% (of the Prime Power)	4.8L / h
Fuel consumption110% (of the Prime Power)	7.8L / h

Oil system

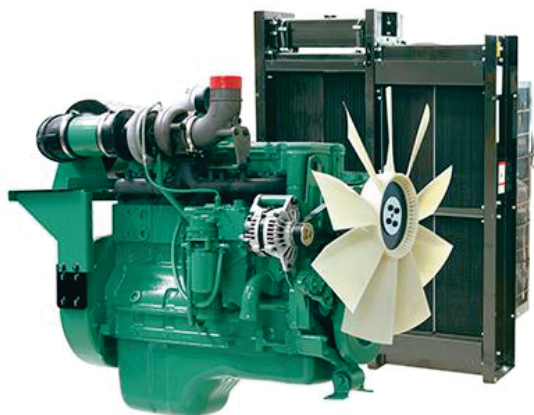
Total oil capacity w/filters	10.9L
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Air intake

Engine air flow	36L/sec
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Coolant System

Radiator & engine capacity	7.2L
Max water temperature	110°C
Thermostat	83-95°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 A42 A-S
Number of phase power	1
Factor (Cos Phi)	1
Pole	4
Bearing	1
Coupling	Direct
Exciter type	SHUNT
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	R121
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	4

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,



GUANGDONG WESTINPOWER CO., LTD ADD:Westinpower
Industrial Zone,Shantou Free Tax Zone,Guangdong Province, China
Tel: +86-754-89692708 | Fax: +86-754-88177099 | Email: overseas@westinpower.com
Http:// www.westinpower.com

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 6020

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DIMENSIONS

OVERALL

216mm x 158mm x 42mm

(8.5" x 6.2" x 1.6")

PANEL CUTOUT

182mm x 137mm

(7.2" x 5.4")

WEIGHT

400g (0.4kg)



KEY FEATURES

- Back-lit icon 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
- 4 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 (5)
- Remote Start input
- 3 Phase generator monitoring
- Current monitoring and protection
- Power monitoring(kW, kV A, kV Ar)
- 3 Phase Mains (Utility) monitoring (DSE6020 only)
- Test button (DSE6020 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 (DSE6020 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of



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



- 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.

