

TC560LS

60Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 208/120V-60Hz-3Phase

Model	TC560LS	
Power(ESP)	kVA/kW	562/450
Power(PRP)	kVA/kw	510/408
Starter Voltage	V	24
Rated Current	A	1560
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/h	111
Fuel Tank Capacity	L	607
Noise level	dB(A)@1m	Silent Type: ≤86

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	3305mm×1360mm×2110mm	4179 kg
Silent Type	5306mm×1566mm×2585mm	5474 kg



STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: LEROYSOMER, TAL-A47-B

Diesel Engine: CUMMINS , KTA19-G3

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	KTA19-G3
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6 / L
Displacement	18.9 L
Bore and Stroke	159 mm×159 mm
Compression ratio	13.9 : 1
Max. stand by power at rated RPM	511kW
Frequency regulation , steady state	≤1%
Governor : type	Electronic
Aspiration and Cooling	Turbocharged and Charge Air Cooled



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Exhaust System

Exhaust gas flow	1579 L/s
Exhaust temperature	471°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	111 L / h
Fuel consumption75% (of the Prime Power)	86 L / h
Fuel consumption50% (of the Prime Power)	61 L / h
Fuel consumption25% (of the Prime Power)	37 L / h

Oil system

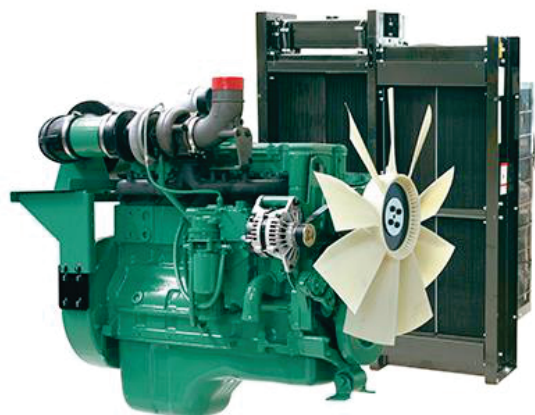
Total oil capacity w/filters	50 L
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Air intake

Engine air flow	611 L/s
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Coolant System

Radiator & engine capacity	98.3 L
Max water temperature	104°C
Thermostat	82-93°C



Low noise, durability, high efficiency, compact structure, big capacity, excellent power, high performance in harsh environment.

Advanced electronic governor, filling up loading, temperature, fuel inner energy, air pressure, increasing efficiency and output power.

Note: All data sheets are for reference only
and subject to change without prior notice.



ALTERNATOR Specification

Manufacturer: LEROY SOMER

Type	TAL-A47-B
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	R250
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

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





STANDARDS

IEC 60034, NEMA MG 1.32 - 33, ISO 8528/3, CSA, UL 1446, UL 1004
on request and depending on voltages, marine.

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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	Event Log (5)	mains (utility) and generator power (DSE6020 only)
Front panel editing	Remote Start input	Hours counter provides accurate information for monitoring and maintenance periods
LED and LCD alarm indication	3 Phase generator monitoring	User-friendly set-up and button
Power Save mode	Current monitoring and protection	Multiple engine parameters are monitored simultaneously
CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)	Power monitoring(kW, kV A, kV Ar)	Module can be configured to suit individual applications
PC and front panel configuration	3 Phase Mains (Utility) monitoring (DSE6020 only)	Compatible with a wide range of CAN engines
4 Digital inputs	Test button (DSE6020 only)	Uses DSE Configuration Suite PC software for simplified configuration
3 Analogue inputs	Battery Voltage monitoring	IP65 rating (with optional gasket) offers increased resistance to water ingress
6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)	Engine pre-heat	
Configurable timers and alarms	Hours counter	
Alternative configuration	Comprehensive shutdown or warning on fault condition	
	KEY BENEFITS	
	Automatically transfers between	



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