

Cummins Diesel Generator Set

CUMMINS ENGINE

RELIABLE SOURCE IN POWER GENERATION

DESIGN SPECIFICATIONS

- High quality, reliable, long life and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generator set is subjected to a comprehensive test programme which includes full load testing and checking and proving of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories: Electrical, mechanical, soundproof canopy and on road trailer

STANDARD SPECIFICATION

ENGINE

- **CUMMINS** heavy duty diesel engine
- Four Stroke, water cooled, direct injection fuel system
- **Mechanical Governor Control System**
- Four valves per cylinder
- Changeable cylinder liners
- 12 / 24 V D.C. Starter and charge alternator
- Cartridge type dry air filter
- Cooling radiator 50°C at max.
- Industrial capacity exhaust silencer and expansion joint
- Starter battery
- Operations manuals and circuit diagrams documents

ALTERNATOR

- Screen protected and drip-proof, brushless, self-exciting, 4 poles, class H isolation system, the standard degree of protection is IP 21 or 23, single bearing system with automatic voltage regulator.

CHASSIS

- The complete generator set is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/alternator feet and the base frame.
- Base frame design incorporates an integral fuel tank (for AC 550 Model and below).

QUALITY STANDARDS

- The equipment meets the following standards: VDE 0530, BS 4999, BS 5000, IEC 34.

WARRANTY

- 12 months warranty from commissioning date as standard or 1500 working hours which one occurs first.



CONTROL SYSTEM

- Control, supervision and protection panels are mounted on the generator set with antivibration pads. The control panel is equipped as follows:

Instruments:

- 1 Voltmeter
- 3 Ammeter
- 1 Frequency meter
- 1 Hours runmeter
- Coolant temperature gauge
- Oil pressure gauge

Manual System:

- a) Controls:
 - Start / Stop push buttons
 - Voltmeter phase selector switch
 - Emergency stop button
- b) Shut down protection with individual indicators for:
 - High engine temperature
 - Low oil pressure
 - Overspeed
- c) Thermic magnetic circuit breaker

OPTIONAL EQUIPMENT

- Fuel - water separator filter (at automatic models)
- Remote radiator / Heat exchanger
- Automatic fuel filling system
- Oil heater
- Low fuel level alarm
- Charge voltmeter
- Charge ammeter
- Anti-condensation heater
- Alternator thermic- magnetic circuit breaker
- Electronic Governor Control System
- Special type silencer
- Enclosure, soundproof canopy
- Trailer

Auto System:

- a) Controls:
 - Stop / Reset - Automatic - Manual control switch and full automatic mains failure
 - Voltmeter phase selector switch
 - Emergency stop Button
- b) Shut down protection devices with indicators for:
 - Fail to start
 - High engine temperature
 - Low oil pressure
 - Low coolant level
 - Overspeed
- c) Thermic overload protector
- d) Automatic battery charger



TECHNICAL DATA

Genset Model	Cummins Engine Model	Output				Dimension & Weight				Fuel Consumption l/h
		50 Hz, 1500 RPM				Length mm	Width mm	Height mm	Dry Weight kg	
		Prime Power		Standby Power						
		kW	kVA	kW	kVA					
T - C28	4B3.9G2	20	25	22	28	1,945	695	1,145	1,040	9.70
AC 39	4B3.3G1	28	35	31	39	1,730	730	1,090	658	9.60
T - C40	4BT3.9G2	30	38	33	41	1,945	695	1,145	1,060	15.37
T - C46	4BTA3.9G2	34	43	37	46	1,945	695	1,145	1,070	16.00
AC 55	4BT3.3G2	40	50	44	55	1,730	730	1,090	687	12.00
T - C60	4BTA3.9G2	44	55	48	60	1,945	695	1,145	1,070	16.00
AC 66	4BT3.9G4	48	60	53	66	1,945	695	1,145	1,070	16.00
AC 70	4BT3.9G4	50	63	56	70	1,945	695	1,145	1,070	16.00
T - C77	6BT5.9G1	56	70	62	77	1,945	695	1,150	1,200	19.80
AC 90	4BTA3.9G3	64	80	72	90	1,945	695	1,150	1,200	19.80
AC 110	6BT5.9G6	80	100	88	110	2,180	700	1,500	1,030	22.00
T - C110	6BT5.9G2	80	100	88	110	2,250	740	1,150	1,400	22.00
AC 150	6CT8.3G2	108	135	120	150	2,380	900	1,530	1,445	30.00
AC 160	6BTA5.9G2	112	140	144	160	2,380	900	1,530	1,445	30.00
AC 200	6CTA8.3G2	144	180	160	200	2,380	900	1,580	1,560	40.00
T - C215	6CTAA8.3G2	160	200	172	215	2,850	880	1,150	1,700	44.50
AC 250	6CTAA8.3G2	180	225	200	250	2,700	900	1,730	2,020	48.40
ACL 250	LTA 10 G2	184	230	200	250	2,700	900	1,730	2,020	48.40
AC 275	LTA 10 G3	200	250	220	275	2,700	900	1,730	2,180	51.00
T - C275	NT855GA	200	250	220	275	2,900	970	1,600	3,100	62.00
AC 350	NT855G6	253	316	280	350	3,100	1,020	2,050	2,620	69.00
T - C388	NTA855G2A	280	350	310	388	2,980	970	1,600	3,250	70.00
T - C388	NTAA855G4	280	350	310	388	3,000	970	1,600	3,400	76.00
AC 400	NTA855G4	284	356	320	400	3,100	1,020	2,020	2,830	76.00
AC 500	KTA19G3	360	450	400	500	3,310	1,350	2,200	3,760	97.00
ACQ 515	QSX15G6	368	460	412	515	3,310	1,350	2,200	3,760	97.00
AC 550	KTA19G4	400	500	440	550	3,400	1,350	2,200	3,760	107.00
ACQ 550	QSX15G8	400	500	440	550	3,400	1,350	2,200	3,760	107.00
T - C550	KTA19G4	400	500	440	550	3,600	1,250	1,900	4,800	107.00
T - C625	KTAA19G6	450	563	500	625	3,600	1,220	1,900	4,800	118.00
T - C688	KTAA19G7	500	625	550	688	3,600	1,220	1,900	8,950	142.00
AC 703	VTA28G5	510	638	562	703	3,900	1,400	2,250	5,220	140.00
ACQ 720	QSK23G1	520	650	576	720	3,900	1,400	2,250	5,220	140.00
AC 825	VTA28G6	600	750	660	825	4,600	1,650	2,410	8,950	170.00
ACQ 830	QSK23G2	600	750	664	830	4,600	1,650	2,410	8,950	170.00
T - C825	KTA38G2	600	750	660	825	4,600	1,650	2,410	8,950	170.00
ACQ 881	QSK23G3	640	800	705	881	4,200	1,750	2,330	7,050	168.00
T - C900	KTA38G2A	640	800	720	900	4,800	1,890	2,410	9,650	207.00
AC 1030	KTA38G3	744	930	824	1,030	4,380	1,900	2,212	7,680	198.00
ACQ 1030	QST30G3	744	930	820	1,026	4,300	1,750	2,330	7,250	184.00
ACQ 1130	QST30G4	820	1,026	904	1,130	4,550	1,750	2,330	7,900	202.00
AC 1130	KTA38G5	824	1,030	904	1,130	4,380	1,900	2,212	7,720	209.00
AC 1435	KTA50G3	1,024	1,280	1,148	1,435	5,230	2,100	2,260	10,500	261.00
AC 1675	KTA50GS8	1,120	1,400	1,340	1,675	5,400	2,100	2,260	12,000	289.00
AC 1675	KTA50GS8	1,200	1,500	1,340	1,675	5,400	2,100	2,260	12,000	289.00
ACQ 2100	QSK60G3	1,500	1,875	1,648	2,060	6,150	2,900	3,200	15,500	360.00
ACQ 2200	QSK60G4	1,600	2,000	1,760	2,200	6,250	2,950	3,200	16,000	394.00

*Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period

*Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings

*Above ratings represents the engine performance capabilities guaranteed within +/- 5% at the reference conditions specified in ISO 3046, BS 5514, DIN 6271 (27 deg C - 100m above sea level)

*KVA figures quoted are based on power factor of 0.8

*All ratings are based upon nominal 380-415v 3ph 50 Hz and 440-480v 3ph 60 Hz

*Manufacturer reserves the right to make changes in model, technical specifications, colour, equipment and accessories without prior notice