JUBILEE ENERGY

Power solutions from 10 - 3000 kVA

GENERATORS

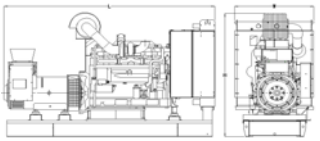
Cummins Powered Range
22 - 2250 kVA

Open Set Specifications

Genset Model	Duty	50 Hz kVA	50 Hz kW	Engine	Fuel Cons. (L/Hr)	Tank Capacity	Cyl.	Gov.	Alternator	Dimensions (mm) L	W	H	Weight (kg)
JEG22C	Prime	22	18	4B3.9G1	5.0	150 L	4	Mech	BCI184E	1485	885	1455	675
JEG22C	Standby	24	20	4B3.9G1	5.3	150 L	4	Mech	BCI184E	1485	885	1455	675
JEG30C	Prime	30	24	4B3.9G2	6.5	150 L	4	Mech	BCI184G	1485	885	1455	675
JEG30C	Standby	33	26	4B3.9G2	6.9	150 L	4	Mech	BCI184G	1485	885	1455	675
JEG40C	Prime	40	32	4BT3.9G1	9.3	160 L	4	Mech	BCI184J	1685	885	1455	781
JEG40C	Standby	44	35	4BT3.9G1	10	160 L	4	Mech	BCI184J	1685	885	1455	781
JEG60C	Prime	60	48	4BTA3.9G2	14	180 L	4	Elec	UCI224E	1750	885	1355	835
JEG60C	Standby	66	55	4BTA3.9G2	15	180 L	4	Elec	UCI224E	1750	885	1355	835
JEG80C	Prime	80	64	6BT5.9G1	20	280 L	6	Mech	UCI274C	2100	925	1475	1170
JEG80C	Standby	88	70	6BT5.9G1	22	280 L	6	Mech	UCI274C	2100	925	1475	1170
JEG100C	Prime	100	80	6BT5.9G2	20	280 L	6	Elec	UCI274C	2100	925	1475	1170
JEG100C	Standby	110	88	6BT5.9G2	22	280 L	6	Elec	UCI274C	2100	925	1475	1170
JEG130C	Prime	130	104	6BTAA5.9G2	30	280 L	6	Elec	UCI274E	2350	935	1550	1200
JEG130C	Standby	143	114	6BTAA5.9G2	33	280 L	6	Elec	UCI274E	2350	935	1550	1200
JEG175C	Prime	175	140	6CTA8.3G2	40	290 L	6	Elec	UCI274G	2350	1000	1440	1720
JEG175C	Standby	193	154	6CTA8.3G2	45	290 L	6	Elec	UCI274G	2350	1000	1440	1720
JEG200C	Prime	200	160	6CTAA8.3G2	45	330 L	6	Elec	UCI274H	2485	1000	1600	1650
JEG200C	Standby	220	176	6CTAA8.3G2	51	330 L	6	Elec	UCI274H	2485	1000	1600	1650
JEG225C	Prime	225	180	NT855G	50	380 L	6	Elec	UCI274J	2850	1250	1780	3200
JEG225C	Standby	250	200	NT855G	55	380 L	6	Elec	UCI274J	2850	1250	1780	3200
JEG250C	Prime	250	200	NTA855G1	55	380 L	6	Elec	UCD274K	3085	1250	1775	3300
JEG250C	Standby	275	220	NTA855G1	60	380 L	6	Elec	UCD274K	3085	1250	1775	3300
JEG275C	Prime	275	220	NTA855G1	62	420 L	6	Elec	HCI444D	3085	1250	1775	3300
JEG275C	Standby	303	242	NTA855G1	74	420 L	6	Elec	HCI444D	3085	1250	1775	3300
JEG312C	Prime	312	250	NTA855G2	69	460 L	6	Elec	HCI444E	3085	1250	1775	3380
JEG312C	Standby	343	275	NTA855G2	77	460 L	6	Elec	HCI444E	3085	1250	1775	3380
JEG350C	Prime	350	280	NTA855G4	76	420 L	6	Elec	HCI444E	3085	1250	1775	3400
JEG350C	Standby	385	308	NTA855G4	84	420 L	6	Elec	HCI444E	3085	1250	1775	3400
JEG375C	Prime	375	300	NTAA855G7	83	610 L	6	Elec	HCI444F	3240	1440	2060	3810
JEG375C	Standby	413	330	NTAA855G7	91	610 L	6	Elec	HCI444F	3240	1440	2060	3810
JEG450C	Prime	450	360	KTA19G3	100	610 L	6	Elec	HCI544C	3240	1440	2060	3860
JEG450C	Standby	500	400	KTA19G3	107	610 L	6	Elec	HCI544C	3240	1440	2060	3860
JEG500C	Prime	500	400	KTA19G4	112	630 L	6	Elec	HCI544D	3340	1440	2060	4030
JEG500C	Standby	550	440	KTA19G4	121	630 L	6	Elec	HCI544D	3340	1440	2060	4030
JEG600C	Prime	600	480	KTAA19G6	130	-	6	Elec	HCI544E	2645	1740	2485	4390
JEG600C	Standby	660	528	KTAA19G6	139	-	6	Elec	HCI544E	2645	1740	2485	4390
JEG625C	Prime	625	500	KTA38G	160	-	12	Elec	HCI544F	4400	1760	2300	8560
JEG625C	Standby	688	550	KTA38G	180	-	12	Elec	HCI544F	4400	1760	2300	8560
JEG750C	Prime	750	600	KTA38G2	165	-	12	Elec	HCI634G	4400	1760	2300	8560
JEG750C	Standby	825	660	KTA38G2	180	-	12	Elec	HCI634G	4400	1760	2300	8560
JEG900C	Prime	900	720	KTA38G2A	200	-	12	Elec	HCI634H	4400	1760	2300	8580
JEG900C	Standby	990	792	KTA38G2A	210	-	12	Elec	HCI634H	4400	1760	2300	8580
JEG1000C	Prime	1000	800	KTA38G5	220	-	12	Elec	HCI634J	4400	1760	2300	8890
JEG1000C	Standby	1100	880	KTA38G5	238	-	12	Elec	HCI634J	4400	1760	2300	8890
JEG1250C	Prime	1250	1000	KTA50G3	264	-	16	Elec	PI734A	5100	1750	2515	10500
JEG1250C	Standby	1375	1100	KTA50G3	293	-	16	Elec	PI734A	5100	1750	2515	10500
JEG1400C	Prime	1400	1120	KTA50G8	289	-	16	Elec	PI734B	6500	2050	3080	10900
JEG1400C	Standby	1500	1200	KTA50G8	318	-	16	Elec	PI734B	6500	2050	3080	10900

Genset Model Definition:

Specifications and design subject to change without prior notice



Prime Power (ISO 8528) ratings are suitable for continuous electrical power (at variable load) in lieu of mains power. There are no limitations to the annual hours of operation. Average 24 hr usage should not exceed 80% of the prime power. Models can supply 10% overload power for 1 hr in every 12 hr period.

Standby Power (ISO 3046) ratings are for the supply of emergency power (at variable load) in lieu of mains power, up to a maximum of 500 hours per year. No overload is permitted.
Ratings at 0.8 pf, 25°C ambient, 30% humidity, 175m above sea level. All data in accordance with BS4999, BS5000, BS5514, 1EC 34, VDE0530, NEMAMG-1.22

JEG-C Range

OUTPUT RATINGS
The following 3 phase voltages are available:-

50 Hz	415	400	380
	240	230	220

ENGINE

Cummins heavy duty industrial diesel engine.

Governor
Compliant with BS.5514 Class A1. Electronic governing standard on all engines over 130 kVA.

Electrical System
12V & 24V system with battery charging alternator, axial type starter motor, high capacity maintenance free lead acid starting batteries, battery rack mounted on the generator set baseframe and heavy duty interconnecting cables with terminations.

Engine Filtration System
Sealed paper mesh type dry air filters. Cartridge type fuel filters and full flow lube oil filters. All filters have replaceable elements.

ALTERNATOR
Stamford alternators have been carefully selected to match the overload performance of the engine and incorporate the following: Screen protected and drip proof, self exciting, self regulating brushless alternator with fully interconnected damper windings, IC06 cooling system and sealed for life bearings. PMG fitted as standard on JEG750C and above.

Insulation System
The insulation system is Class H. All windings are impregnated in either triple dip thermo-setting moisture, oil and acid resisting polyester or vacuum impregnated with a special polyester resin. Heavy coat of anti-tracking varnish for additional protection against moisture or condensation.

Electrical Characteristics
Electrical design in accordance with BS.5000 Part 99, IEC34-1, VDE0530, UTE5100, NEMA MG-122, CEMA, CSA 22.2 and AS1359.

Automatic Voltage Regulator
The fully sealed automatic voltage regulator maintains the voltage within the limits of ± 0.5% (±1.0% on HCI5 frame) from no load to full load including cold to hot variations at any power factor between 0.8 lagging and unity and inclusive of a speed variation of 4.0%. Nominal adjustment is by means of a trimmer incorporated in the AVR.

Radio Interference
Suppression is in line with the provisions of BSEN 50081 and VDE Class G.

CONTROL SYSTEM
Baseframe mounted, control panel of fabricated steel construction with a hinged lockable door. The control panel is isolated from vibration and comprises of the following instrumentation and controls: Oil pressure gauge, water temperature, hours counter. An auto start control module and emergency stop button are fitted as standard.

Shutdown Protection Devices with Indicators for:
High coolant temperature and low oil pressure.

FUEL SYSTEM
Fuel tank is standard up to and including JEG500C. Beyond that, fuel pipe connection points (feed and return) are terminated to the generator baseframe.

COOLING RADIATOR
Radiator and cooling fan complete with protection guards, designed to cool the engine at specified output, in air-on temperatures up to 50ºC (122ºF). Coolant drain valve fitted as standard.

MOUNTING ARRANGEMENT

Baseframe
The complete generator set is mounted as a whole on a heavy duty fabricated, welded steel baseframe. The baseframe incorporates specially designed lifting eyes for sling operation. Fork tine slots are included on models that can be lifted by forklift.

Coupling
The engine and alternator are directly coupled by means of an SAE flange so that there is no possibility of misalignment after prolonged use. The engine flywheel is flexibly coupled to the alternator and a full torsional analysis has been carried out to guarantee no harmful vibration will occur in the assembly.

Anti-Vibration Mounts
Anti-vibration mounts are supplied fitted between the engine/alternator combination and the baseframe for all generators up to and including the JEG500C. Beyond this, AVM's will be supplied loose for site installation between the baseframe and floor.

Exhaust System
Heavy duty industrial type silencer with flexible piping is included as standard. These are supplied loose for site installation.

GENERAL ARRANGEMENT
The sets are designed and constructed for installation in a weatherproof building.

DOCUMENTATION
A full set of operation and maintenance manuals and circuit wiring diagrams are supplied with each generating set.

FACTORY TESTS
A load test is performed before despatch. All protective devices, control functions are simulated and the generator and its systems checked, proved and then passed for despatch.

EQUIPMENT FINISH
Certain options of colour available.

QUALITY STANDARDS
The equipment meets the following standards: BS.4999, BS.5000, BS.5514, IEC 34, VDE0530, NEMA MG-122

PRODUCT ENDORSEMENT
All equipment is guaranteed for a period of 12 months from date of commissioning or 18 months from shipping whichever occurs first. Where equipment is supplied by an authorised Jubilee Energy Distributor or Dealer, the 12 months guarantee period will commence from date of ex works shipment, whichever occur first.

Please see Jubilee's Warranty Statement for a full specification of terms. Equipment must only be used in accordance with recommended operating practices and subject to any specified load limitations.

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