



 **broadcrown**[®]
leading world power



50Hz Generator Sets

NOVEMBER 2010



Meeting your emergency, standby, prime and continuous power generation needs with superior quality generator sets and complete power systems.

Broadcrown is a **leading global manufacturer** of high quality generator sets and a provider of complete power generation systems.

We have **over 30 years experience** in power generation. We are trusted to deliver a wide range of standard and bespoke systems – from diesel generators to Uninterruptible Power Supplies (UPS) – plus turnkey power supply solutions, worldwide.

Broadcrown was one of the first power generation companies to be approved to **ISO 9001 standards** and quality drives every aspect of our business.

Our superior designs use **high quality components** throughout; not just in the generator sets but also the baseframes, canopies, containers and control panels.

Our full product range of single units extends from 6kVA to 3.3MVA. All units can be combined to meet the requirements of larger projects for a broad range of applications delivering standby, prime or continuous power.

We will work with you to implement any **product modifications** that you may need specifically for your project.

Our generator set range includes:

- **Diesel and gas powered**
- **Trailer mounted, diesel powered**
- **Gas and co-generation**
- **Oil and gas**
- **Marine**
- **Medium speed**
- **Gas turbines**
- **Bespoke**
- **Rental**

We also provide a wide range of static and rotary Uninterruptible Power Supply (UPS) systems.



contents

50Hz Diesel Generator Sets	3
Generator Set Designations & Definition of Ratings	4
6kVA to 32.5kVA: Midi Range: Emission compliant and non-compliant	5
14.5kVA to 440kVA: John Deere Range: Emission non-compliant	6
14.5kVA to 330kVA: John Deere Range: Emission compliant	7
275kVA to 700kVA: Volvo Range: Emission compliant	8
27.5kVA to 550kVA: Cummins Range: Emission compliant and non-compliant	9
650kVA to 3050kVA: Cummins Range: Emission non-compliant	10
1250kVA to 2200kVA: Mitsubishi Range: Emission non-compliant	11
650kVA to 2500kVA: Perkins Range: Emission non-compliant	12
450kVA to 3350kVA: MTU Range: Emission compliant and non-compliant	13
Specifications and Options	14
Acoustic Packages	16
Table of Specifications	17
Control Panels	18
Midi Range Generator Sets	18
Standard Range Generator Sets	21
Large Bespoke Generator Sets	23



Model: F2000-E	
Serial: 12345678	Part No: 12345678
Rated Power: 100 kW	Rated Speed: 1800 RPM
Rated Torque: 350 Nm	Rated Voltage: 24 V
Rated Current: 42 A	Rated Frequency: 50 Hz
Rated Efficiency: 85%	Rated Fuel Consumption: 180 g/kWh
Rated Oil Consumption: 0.15 g/kWh	Rated Water Consumption: 0.05 g/kWh
Rated Air Consumption: 0.15 m³/kWh	Rated Exhaust Emission: 0.15 g/kWh
Rated Noise: 85 dB(A)	Rated Vibration: 0.15 mm/s
Rated Lifetime: 10000 hours	Rated Maintenance Interval: 1000 hours

50Hz diesel generator sets

Superior quality generator sets from 6kVA to 3350kVA powered by engines from world-renowned manufacturers.

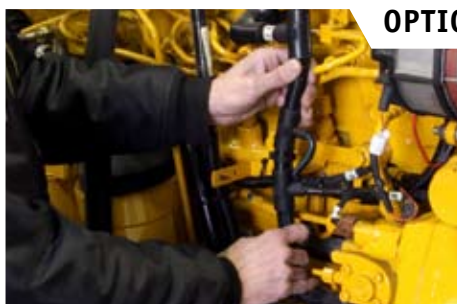
This brochure provides the main specifications and options available for models in our 50Hz diesel product ranges.

More information on our comprehensive product range plus technical updates can be found on our website www.broadcrown.com



BESPOKE SOLUTIONS

We offer a very wide range of high quality standard generator sets and we also offer a bespoke service to help tailor generator sets to suit your specific needs. Contact our sales department or local regional sales office.



OPTIONS

All the necessary mechanical and electrical options are available for every range.



ACOUSTIC PACKAGES

We develop and supply canopies, weatherproof enclosures and container packages for outdoor all-weather use in the harshest of environments with acoustic performance to meet the most stringent specification.



CONTROL PANELS

All generator sets are supplied with a comprehensive digital control panel offering a user-friendly interface as standard. Further options are available providing even greater control system flexibility.

Generator set designations and definition of ratings

All generator model designations begin with the prefix **BC**.
The following letter(s) are used to indicate the manufacturer of the engine on which the generator is based.

For example—

Cummins:	BCC
John Deere:	BCJD
Lister:	BCL
Mitsubishi:	BCM
MTU:	BCMU
Perkins:	BCP
Volvo:	BCV
Yanmar:	BCY

For the Midi, John Deere, Cummins and Volvo Ranges:

The next part of the designation is a number which represents the rating of the generator followed by a frequency & phase indicator thus—

50Hz 3-Phase:

[max standby rating in kVA] -50

50Hz Single Phase:

[maximum rating in kWe] -50SP

For the Cummins, Mitsubishi, MTU and Perkins Ranges:

The next part of the designation is a number which represents the rating of the generator followed by the 'P' or 'S' indicator, followed by a frequency indicator thus—

50Hz 3-Phase Prime:

[prime rating in kVA] P-50

50Hz 3-Phase Standby:

[max standby rating in kVA] S-50

The final part of the designation indicates the appropriate level of emissions certification, if applicable.

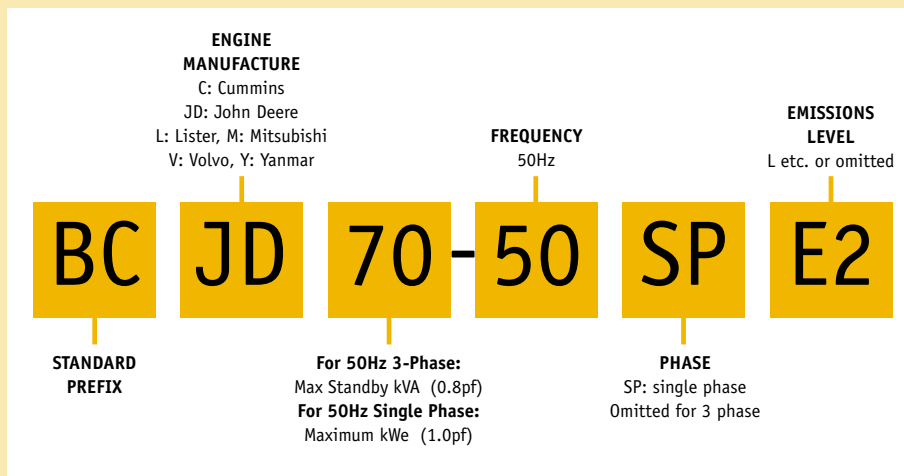
For example—

50Hz, compliant with T.A. Luft: **L**

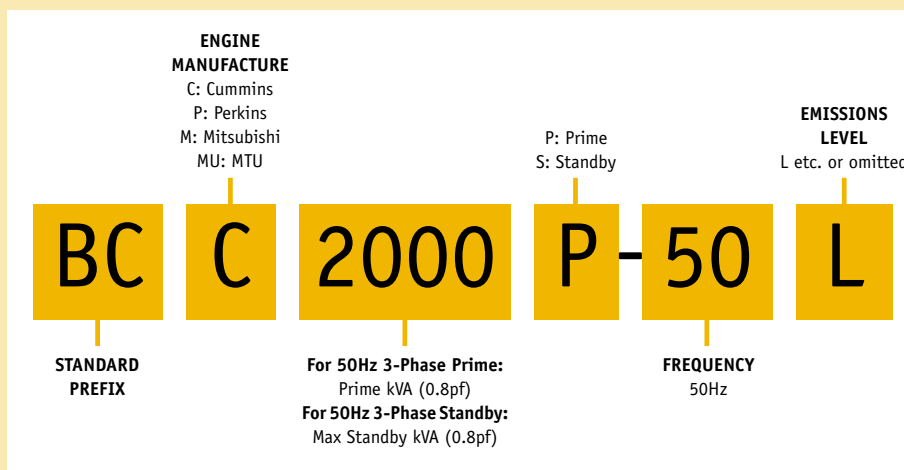
50Hz, compliant with Euro Stage 2: **E2**

50Hz, compliant with Euro Stage 3: **E3A**

A Euro Stage 2 certified engine is required for mobile applications within the EU. Please contact Broadcrown Sales Department for further information.



Summary for the Midi, Cummins, John Deere and Volvo Ranges



Summary for the Cummins, Mitsubishi, MTU and Perkins Ranges

6kVA to 32.5kVA generator sets

MIDI RANGE 50Hz EMISSION COMPLIANT & NON-COMPLIANT

3 PHASE 380/220 – 415/240V														
		Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications					Open Set Version			Canopy Version
Engine Manufacturer	Genset Model	kVA	kWe	kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)	Alternator Model	Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
John Deere	BCJD 21-50	20	16	21	16.8	4024 TF220	4 in line	2.4	4.7	PI 144 D	1640 x 670 x 1335	715	85	M 2
	BCJD 32-50	30	24	32	25.6	4024 TF220	4 in line	2.4	7.4	PI 144 G	1640 x 670 x 1335	715	85	M 2
Lister	BCL 8-50	7.5	6.4	—	—	LPW 2-27	2 in line	0.9	1.6	PI 044 D	1310 x 540 x 1290	400	55	M 1
	BCL 13-50	12.5	10	—	—	LPW 3-27	3 in line	1.4	2.8	PI 044 F	1310 x 540 x 1290	480	55	M 1
	BCL 16-50	16	12.8	—	—	LPW 4-27	4 in line	1.9	3.8	PI 044 H	1310 x 540 x 1290	560	55	M 1
Mitsubishi	BCM 11-50 E2	10	8	10.8	8.6	S3L2-61SD	3 in line	1.3	3.1	PI 044 E	1300 x 520 x 1240	625	55	M 1
	BCM 16-50 E2	14	11.2	15.5	12.4	S4L2-61SD	4 in line	1.8	4.3	PI 044 G	1300 x 520 x 1240	650	55	M 1
	BCM 22-50 E2	20	16	22	17.6	S4Q2-Z261SD	4 in line	2.5	6.4	PI 144 D	1650 x 650 x 1170	700	55	M 1
	BCM 33-50 E2	30	24	32.5	26	S4S-Z263SD	4 in line	3.3	8.4	PI 144 G	1650 x 650 x 1240	925	85	M 2
Yanmar	BCY 9-50 E2	9	7.2	—	—	3TNV 76	3 in line	1.1	2.9	PI 044 E	1380 x 610 x 1300	690	55	M 1
	BCY 14-50 E2	14	11.2	—	—	3TNV 88	3 in line	1.6	3.6	PI 044 G	1380 x 610 x 1300	695	55	M 1
	BCY 19-50 E2	19	15.2	—	—	4TNV 88	4 in line	2.9	4.9	PI 144 D	1380 x 610 x 1300	703	55	M 1
Cummins	BCC 11-50	10	8	11	8.8	X1.3-G2	2 in line	1.3	3.0	PI 044 E	1300 x 520 x 1240	625	55	M 1
	BCC 28-50	25	20	27.5	22	X2.5-G2	3 in line	2.5	6.0	PI 144 E	1650 x 650 x 1170	700	85	M 2

SINGLE PHASE 220 – 240V													
		Prime Rating (PRP)	Standby Rating (ESP)	Engine Specifications					Open Set Version			Canopy Version	
Engine Manufacturer	Genset Model	kVA (kWe)	kVA (kWe)	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)	Alternator Model	Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type	
John Deere	BCJD 16-50SP	16	—	4024 TF220	4 in line	2.4	5.5	PI 144 D	1640 x 670 x 1335	715	85	M 2	
	BCJD 24-50SP	24	—	4024 TF220	4 in line	2.4	7.4	PI 144 G	1640 x 670 x 1335	715	85	M 2	
Lister	BCL 6-50SP	6	—	LPW 2-27	2 in line	0.93	1.6	PI 044 D	1310 x 540 x 1290	400	55	M 1	
	BCL 10-50SP	10	—	LPW 3-27	3 in line	1.395	2.8	PI 044 F	1310 x 540 x 1290	480	55	M 1	
	BCL 12-50SP	12.4	—	LPW 4-27	4 in line	1.86	3.8	PI 044 H	1310 x 540 x 1290	560	55	M 1	
Mitsubishi	BCM 8-50SP E2	7.4	8	S3L2-61SD	3 in line	1.3	3.1	PI 044 E	1300 x 520 x 1240	625	55	M 1	
	BCM 12-50SP E2	11	12	S4L2-61SD	4 in line	1.76	4.3	PI 044 G	1300 x 520 x 1240	650	55	M 1	
	BCM 16-50SP E2	14.5	16	S4Q2-Z261SD	4 in line	2.51	6.4	PI 144 D	1650 x 650 x 1170	700	55	M 1	
	BCM 24-50SP E2	22	24	S4S-Z263SD	4 in line	3.33	8.4	PI 144 G	1650 x 650 x 1170	925	85	M 2	
Yanmar	BCY 7-50SP E2	7	—	3TNV 76	3 in line	1.116	2.9	PI 044 E	1380 x 610 x 1300	690	55	M 1	
	BCY 11-50SP E2	11	—	3TNV 88	3 in line	1.64	3.6	PI 044 G	1380 x 610 x 1300	695	55	M 1	
	BCY 15-50SP E2	15	—	4TNV 88	4 in line	2.19	4.9	PI 144 D	1380 x 610 x 1300	703	55	M 1	
Cummins	BCC 9-50SP	7.7	8.5	X1.3-G2	2 in line	1.3	3.0	PI 044 E	1300 x 520 x 1240	625	55	M 1	
	BCC 22-50SP	20	22	X2.5-G2	3 in line	2.5	6.0	PI 144 F	1650 x 650 x 1170	700	85	M 2	

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation, except when using Yanmar or Lister engines.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor and single phase ratings at 1.0 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, [110m (361ft) altitude] and 30% relative humidity.
For de-rating, please contact Broadcastrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcastrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcastrown.com



BCM 33-50 E2:
engine S4S-Z263SD, alternator PI 144 G, control panel BC 701-M

14.5kVA to 440kVA generator sets

JOHN DEERE RANGE 50Hz EMISSION NON-COMPLIANT

3 PHASE 380/220 – 415/240V														
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version	
	kVA	kWe	kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type	
BCJD 22-50	20	16	22	18	3029 DF128	3 inline	2.9	5.8	PI 144 D	1635 x 860 x 1370	820	85	C 1	
BCJD 30-50	28	22	30	24	3029 DF128	3 inline	2.9	6.8	PI 144 F	1635 x 860 x 1370	830	85	C 1	
BCJD 44-50	40	32	44	35	3029 TF158	3 inline	2.9	9.7	PI 144 J	2080 x 680 x 1420	870	155	C 1	
BCJD 65-50	60	48	65	52	4045 TF158	4 inline	4.5	14.2	UCI 224 E	2270 x 860 x 1440	1120	155	C 2	
BCJD 90-50	80	64	90	72	4045 TF258	4 inline	4.5	22.9	UCI 224 G	2270 x 860 x 1440	1295	225	C 2	
BCJD 110-50	100	80	110	88	4045 HF158	4 inline	4.5	27.5	UCI 274 C	2260 x 850 x 1560	1285	225	C 2	
BCJD 130-50	120	96	130	104	6068 TF258	6 inline	6.8	26.6	UCI 274 E	2700 x 800 x 1490	1675	250	C 3	
BCJD 150-50	140	112	150	120	6068 HF158	6 inline	6.8	31.5	UCI 274 E	2700 x 800 x 1610	1770	250	C 3	
BCJD 165-50	150	120	165	132	6068 HF158	6 inline	6.8	33.8	UCI 274 F	2700 x 800 x 1610	1790	250	C 3	
BCJD 200-50	180	144	200	160	6068 HF258	6 inline	6.8	40.7	UCI 274 H	2700 x 800 x 1610	1815	250	C 3	
BCJD 220-50	200	160	220	176	6081 HF001	6 inline	8.1	42.4	UCI 274 H	3060 x 1180 x 1780	2365	350	C 4	
BCJD 260-50	230	184	260	208	6081 HF001	6 inline	8.1	47.6	UCDI 274 J	3060 x 1180 x 1780	2430	350	C 4	
BCJD 275-50	250	200	275	220	6081 HF001	6 inline	8.1	54.0	UCDI 274 K	3060 x 1180 x 1780	2510	350	C 4	
BCJD 330-50	300	240	330	264	6125 HF070	6 inline	12.5	61.4	HCI 444 D	3360 x 1150 x 2110	3500	650	C 5	
BCJD 380-50	350	280	380	304	6125 HF070	6 inline	12.5	71.4	HCI 444 E	3360 x 1140 x 2110	3600	650	C 5	
BCJD 440-50	400	320	440	352	6125 HF070	6 inline	12.5	81.0	HCI 444 F	3360 x 1150 x 2110	3700	650	C 5	

SINGLE PHASE 220 – 240V														
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version	
	kVA (kWe)	kVA (kWe)	kVA (kWe)	kVA (kWe)	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/hr)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type	
BCJD 15-50SP	14.5	—	—	—	3029 DF128	3 inline	2.9	5.8	PI 144 D	1635 x 860 x 1370	820	85	C 1	
BCJD 20-50SP	20	—	—	—	3029 DF128	3 inline	2.9	6.8	PI 144 F	1635 x 860 x 1370	820	85	C 1	
BCJD 22-50SP	22	—	—	—	3029 DF128	3 inline	2.9	7.4	PI 144 G	1635 x 860 x 1370	825	85	C 1	
BCJD 29-50SP	29	—	—	—	3029 TF158	3 inline	2.9	9.7	PI 144 J	2080 x 680 x 1420	860	155	C 1	
BCJD 40-50SP	40	—	—	—	4045 TF158	4 inline	4.5	12.2	UCI 224 E	2270 x 680 x 1440	1294	225	C 2	
BCJD 50-50SP	50	—	—	—	4045 TF158	4 inline	4.5	14.9	UCI 224 F	2270 x 680 x 1440	1294	225	C 2	
BCJD 60-50SP	60	—	—	—	4045 TF258	4 inline	4.5	22.9	UCI 224 G	2270 x 860 x 1440	1295	225	C 2	
BCJD 66-50SP	66	—	—	—	4045 HF158	4 inline	4.5	23.4	UCI 274 C	2270 x 860 x 1560	1294	225	C 2	
BCJD 74-50SP	74	—	—	—	4045 HF158	4 inline	4.5	27.5	UCI 274 D	2270 x 860 x 1560	1294	225	C 2	

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor and single phase ratings at 1.0 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcastrown Sales Department.

NOTES

Genset models not suitable for mobile applications within the EU. Please contact Broadcastrown Sales department for further information. All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcastrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcastrown.com



BCJD 90-50:
engine 4045TF258, alternator UCI 224 G, control panel BC 7210

14.5kVA to 330kVA generator sets

JOHN DEERE RANGE 50Hz EMISSION COMPLIANT

3 PHASE 380/220 – 415/240V													
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
	kVA	kWe	kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (L/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCJD 42-50 E2	38	30	42	34	3029 HFU70	3 inline	2.9	10.1	PI 144 J	2080 x 680 x 1420	880	155	C 1
BCJD 64-50 E2	60	48	64	51.2	4045 HFU70	4 inline	4.5	14.8	UCI 224 E	2270 x 860 x 1440	1295	225	C 2
BCJD 88-50 E2	80	64	88	70.4	4045 HFU72	4 inline	4.5	19.8	UCI 224 G	2270 x 860 x 1560	1294	225	C 2
BCJD 110-50 E2	100	80	110	88	4045 HFU79	4 inline	4.5	23.8	UCI 274 C	2270 x 860 x 1560	1285	225	C 2
BCJD 150-50 E2	140	112	150	120	6068 HFU79	6 inline	6.8	31.2	UCI 274 E	2700 x 800 x 1610	1770	250	C 3
BCJD 165-50 E2	150	120	165	132	6068 HFU79	6 inline	6.8	32.8	UCI 274 F	2700 x 800 x 1620	1790	250	C 3
BCJD 220-50 E2	200	160	220	176	6068 HFU74	6 inline	6.8	40.1	UCI 274 H	2710 x 810 x 1620	1815	250	C 4
BCJD 275-50 E2	250	200	275	220	6090 HFU75	6 inline	9.0	53.8	UCDI 274 K	3360 x 1330 x 1990	3500	350	C 4 A
BCJD 330-50 E2	300	240	330	264	6090 HFU75	6 inline	9.0	64.1	HCI 444 D	3360 x 1330 x 1990	3700	350	C 4 A

SINGLE PHASE 220 – 240V													
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
	kVA (kWe)	kVA (kWe)	kVA (kWe)	kVA (kWe)	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (L/hr)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCJD 15-50SP E2	14.5	—	—	—	3029 TFU70	3 inline	2.9	5.5	PI 144 D	2080 x 680 x 1420	860	85	C 1
BCJD 20-50SP E2	20	—	—	—	3029 TFU70	3 inline	2.9	7.9	PI 144 F	2080 x 680 x 1420	860	85	C 1
BCJD 30-50SP E2	30	—	—	—	3029 HFU70	3 inline	2.9	10.1	UCI 224 D	2080 x 680 x 1420	875	155	C 1
BCJD 45-50SP E2	45	—	—	—	4045 TFU70	4 inline	4.5	14.8	UCI 224 F	2270 x 860 x 1440	1295	225	C 2
BCJD 60-50SP E2	60	—	—	—	4045 HFU72	4 inline	4.5	19.8	UCI 224 G	2270 x 860 x 1560	1294	225	C 2
BCJD 74-50SP E2	74	—	—	—	4045 HFU79	4 inline	4.5	23.8	UCI 274 D	2270 x 860 x 1560	1294	225	C 2

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor and single phase ratings at 1.0 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, IS08528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCJD 110-50 E2:
engine 4045 HFU 79, alternator UCI 274 C, control panel BC 7310

275kVA to 700kVA generator sets

VOLVO RANGE 50Hz EMISSION COMPLIANT

3 PHASE 380/220 – 415/240V													
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
	kVA	kWe	kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCV 300-50 E2	275	220	300	240	TAD940GE	6 inline	9.36	59.6	HCI 444 D	3320 x 1190 x 1830	3540	600	C 4
BCV 360-50 E2	325	260	360	288	TAD941GE	6 inline	9.36	69.9	HCI 444 E	3320 x 1190 x 1830	3445	600	C 4
BCV 385-50 E2	350	280	385	308	TAD1342GE	6 inline	12.13	71.6	HCI 444 E	3320 x 1225 x 1860	3720	720	C 5
BCV 415-50 E2	375	300	415	332	TAD1343GE	6 inline	12.13	77.1	HCI 444 F	3320 x 1225 x 1860	3720	720	C 5
BCV 440-50 E2	400	320	440	352	TAD1344GE	6 inline	12.13	84.7	HCI 444 F	3320 x 1225 x 1860	3720	720	C 5
BCV 500-50 E2	450	360	500	400	TAD1345GE	6 inline	16.12	94.0	HCI 544 C	3820 x 1250 x 2165	5050	710	C 6
BCV 550-50 E2	500	400	550	440	TAD1641GE	6 inline	16.12	102.9	HCI 544 D	3820 x 1250 x 2165	5050	710	C 6
BCV 630-50 E2	570	456	630	504	TAD1642GE	6 inline	16.12	116.9	HCI 544 E	3820 x 1250 x 2165	5050	850	C 6
BCV 700-50 E2	635	508	700	560	TWD1643GE	6 inline	16.12	129.0	HCI 544 F	3580 x 1500 x 2160	4735	850	C 7

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, IS08528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCV 300-50 E2:
engine TAD940GE, alternator HCI 444 D, control panel BC 7310

27.5kVA to 550kVA generator sets

CUMMINS RANGE 50Hz EMISSION COMPLIANT & NON-COMPLIANT

3 PHASE 380/220 – 415/240V													
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
	kVA	kWe	kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCC 39-50	35	28	38.5	30.8	X3.3-G1	4 in line	3.3	8.0	PI 144 H	1650 x 650 x 1170	925	85	C 1
BCC 44-50	40	32	44	35.2	S3.8-G4	4 in line	3.8	11	PI 144 J	2080 x 680 x 1420	870	155	C 1
BCC 55-50 E2	50	40	55	44	4BT3.3-G3	4 in line	3.8	12	UCI 224 D	2080 x 680 x 1420	1000	155	C 2
BCC 55-50	50	40	55	44	S3.8-G6	4 in line	3.8	13	UCI 224 D	2080 x 680 x 1420	1000	155	C 2
BCC 64-50	60	48	64	51.2	S3.8-G7	4 in line	3.8	18	UCI 224 E	2080 x 680 x 1390	1120	155	C 2
BCC 92-50 E3A	85	68	92	74	QSB5-G3	4 in line	5.0	22	UCI 224 G	2270 x 860 x 1440	1284	225	C 2
BCC 110-50	100	80	110	88	6BTA5.9 G5	4 in line	6.0	24	UCI 274 C	2400 x 860 x 1540	1320	225	C 2
BCC 110-50 E3A	100	80	110	88	QSB5-G5	4 in line	5.0	25	UCI 274 C	2260 x 850 x 1560	1285	225	C 2
BCC 138-50	125	100	138	110	6BTAA5.9 G3	6 in line	6.0	30	UCI 274 E	2400 x 860 x 1540	1450	250	C 3
BCC 175-50	160	128	175	140	6BTAA5.9 G5	6 in line	6.0	35	UCI 274 F	2700 x 800 x 1630	1830	250	C 3
BCC 188-50 E3A	170	136	188	150	QSB7-G3	6 in line	7.0	38	UCI 274 F	2700 x 800 x 1610	1790	250	C 3
BCC 200-50 E3A	180	144	200	160	QSB7-G4	6 in line	7.0	42	UCI 274 G	2700 x 800 x 1610	1815	250	C 3
BCC 220-50 E3A	200	160	220	176	QSB7-G5	6 in line	7.0	45	UCI 274 H	2700 x 800 x 1610	1840	250	C 3
BCC 250-50 E3A	225	180	250	200	QSL9-G2	6 in line	9.0	56	UCDI 274 J	3060 x 1180 x 1780	2365	350	C 4A
BCC 275-50 E3A	250	200	275	220	QSL9-G3	6 in line	9.0	59	UCDI 274 K	3060 x 1180 x 1780	2510	350	C 4A
BCC 300-50 E3A	275	220	300	240	QSL9-G4	6 in line	9.0	61	HCI 444 D	3360 x 1150 x 2110	3200	650	C 4A
BCC 330-50	300	240	330	264	QSL9-G5	6 in line	9.0	66	HCI 444 D	3360 x 1150 x 2110	3300	650	C 4A
BCC 330-50 E3A	300	240	330	264	QSL9-G7	6 in line	9.0	66	HCI 444 D	3360 x 1150 x 2110	3300	650	C 4A
BCC 350-50	320	256	350	280	NT855-G6	6 in line	14.0	70	HCI 444 E	3360 x 1150 x 2110	3460	650	C 5
BCC 400-50	365	292	400	320	NTA855-G4	6 in line	14.0	80	HCI 444 F	3360 x 1150 x 2110	3750	650	C 5
BCC 440-50 E2	400	320	440	352	QSK15-G4	6 in line	15.0	85.7	HCI 444 F	3360 x 1150 x 2110	3700	650	C 5
BCC 500-50 E2	455	364	500	400	QSK15-G6	6 in line	15.0	95.9	HCI 544 C	3410 x 1150 x 2110	4000	710	C 6
BCC 550-50 E2	500	400	550	440	QSK15-G8	6 in line	15.0	103	HCI 544 D	3410 x 1150 x 2110	4020	710	C 6

SINGLE PHASE 220 – 240V													
Genset Model	Prime Rating (PRP)		Standby Rating (ESP)		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
	kVA (kWe)	kVA (kWe)	kVA (kWe)	kVA (kWe)	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCC 30-50SP	27.5	—	30.3	—	X3.3-G1	4 in line	3.3	8.0	PI 144 J	1650 x 650 x 1170	925	85	C 1
BCC 32-50 SP	32	—	—	—	S3.8-G4	4 in line	3.8	11.0	UCI 224 D	2080 x 680 x 1420	870	155	C 1
BCC 40-50 SP E2	40	—	—	—	4BT3.3-G3	4 in line	3.8	12.0	UCI 224 E	2080 x 680 x 1420	1000	155	C 2
BCC 40-50 SP	40	—	—	—	S3.8-G5	4 in line	3.8	13.0	UCI 224 E	2080 x 680 x 1420	1000	155	C 2
BCC 48-50 SP	48	—	—	—	S3.8-G7	4 in line	3.8	18.0	UCI 224 F	2080 x 680 x 1390	1120	155	C 2
BCC 65-50 SP E3A	65	—	—	—	QSB5-G3	4 in line	5	22.0	UCI 274 C	2270 x 860 x 1440	1284	225	C 2
BCC 75-50 SP E3A	75	—	—	—	QSB5-G5	4 in line	5	25.0	UCI 274 D	2260 x 850 x 1560	1285	225	C 2
BCC 75-50 SP	75	—	—	—	6BTA5.9 G5	4 in line	6	24.0	UCI 274 D	2400 x 860 x 1540	1320	225	C 2
BCC 100-50SP	100	—	—	—	6BTAA5.9 G3	6 in line	6	30.0	UCI 274 F	2400 x 860 x 1540	1450	250	C 3

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor and single phase ratings at 1.0 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, [110m (361ft) altitude] and 30% relative humidity.

For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCC 275-50 E3A:
engine QSL9-G3, alternator UCIDI 274 K, control panel BC 7310

650kVA to 3050kVA generator sets

CUMMINS RANGE 50Hz EMISSION NON-COMPLIANT

3 PHASE 400/230 – 415/240V												
Genset Model #	Prime (PRP) or Standby (ESP) Rating	Rating		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
		kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank* Capacity (litres)	Enclosure Type
BCC 650P-50	PRP	650	520	VTA 28 G5	12 Vee	28.00	140	HCI 534 F	3860 x 1575 x 2145	5820	720	ISO-20
BCC 700S-50	ESP	700	560	VTA 28 G5	12 Vee	28.00	154	HCI 534 F	3860 x 1575 x 2145	5820	720	ISO-20
BCC 800P-50	PRP	800	640	QSK 23 G3	6 inline	23.15	161	HCI 634 G	4210 x 1750 x 2230	6195	720	ISO-20
BCC 850S-50	ESP	850	680	QSK 23 G3	6 inline	23.15	178	HCI 634 G	4210 x 1750 x 2230	6195	720	ISO-20
BCC 1000P-50	PRP	1000	800	KTA 38 G5	12 Vee	37.80	209	HCI 634 J	4360 x 1800 x 2450	8519	—	ISO-20
BCC 1100S-50	ESP	1100	880	KTA 38 G5	12 Vee	37.80	228	HCI 634 J	4360 x 1800 x 2450	8519	—	ISO-20
BCC 1010P-50	PRP	1000	800	QST 30 G4	12 Vee	30.48	202	HCI 634 J	4450 x 1810 x 2350	7085	—	ISO-20 HC
BCC 1110S-50	ESP	1100	880	QST 30 G4	12 Vee	30.48	224	HCI 634 J	4450 x 1810 x 2350	7085	—	ISO-20 HC
BCC 1250P-50	PRP	1250	1000	KTA 50 G3	16 Vee	50.30	261	PI 734 A	5200 x 1795 x 2340	10200	—	ISO-40 HC
BCC 1275P-50	PRP	1275	1020	QSK 38 G3	12 Vee	37.80	267	PI 734 B	4450 x 1810 x 2350	8519	—	ISO-20
BCC 1400S-50	ESP	1400	1120	QSK 38 G3	12 Vee	37.80	293	PI 734 B	4450 x 1810 x 2350	8519	—	ISO-20
BCC 1410P-50	ESP	1410	1130	KTA 50 G3	16 Vee	50.30	293	PI 734 B	5200 x 1795 x 2340	10200	—	ISO-40 HC
BCC 1400P-50	PRP	1400	1120	KTA 50 G8	16 Vee	50.30	289	PI 734 B	5620 x 2045 x 2440	11010	—	ISO-40 HC
BCC 1500P-50	PRP #	1500	1200	KTA 50 GS8	16 Vee	50.30	307	PI 734 C	5620 x 2045 x 2440	11010	—	ISO-40 HC
BCC 1660S-50	ESP	1660	1328	KTA 50 G8	16 Vee	50.30	345	PI 734 C	5620 x 2045 x 2440	11010	—	ISO-40 HC
BCC 1540P-50	PRP	1540	1232	QSK 50 G4	16 Vee	50.30	340	PI 734 C	5930 x 2050 x 3010	11260	—	‡
BCC 1700S-50	ESP	1700	1360	QSK 50 G4	16 Vee	50.30	370	PI 734 D	5920 x 2050 x 3010	11260	—	‡
BCC 1875P-50	PRP	1875	1500	QSK 60 G3	16 Vee	60.20	370	PI 734 E	5540 x 1875 x 2720	13800	—	‡
BCC 2000S-50	ESP	2000	1600	QSK 60 G3	16 Vee	60.20	414	PI 734 E	5540 x 1875 x 2720	13800	—	‡
BCC 2050P-50	PRP	2050	1600	QSK 60 G4	16 Vee	60.20	394	PI 734 F	6000 x 2325 x 3240	14225	—	‡
BCC 2250S-50	ESP	2250	1784	QSK 60 G4	16 Vee	60.20	437	PI 734 F	6000 x 2325 x 3240	14225	—	‡
BCC 2200P-50	PRP #	2200	1760	QSK 60 G8	16 Vee	60.20	455	PI 734 G	6000 x 2325 x 2900	14225	—	‡
BCC 2360S-50	ESP #	2360	1888	QSK 60 G8	16 Vee	60.20	500	PI 734 G	6000 x 2325 x 2900	14225	—	‡
BCC 2500P-50	PRP	2500	2000	QSK 78 G6	18 Vee	78.00	530	LVSI 804 S2	7000 x 2325 x 2900	17000	—	‡
BCC 2750S-50	ESP	2750	2200	QSK 78 G6	18 Vee	78.00	583	LVSI 804 S2	7000 x 2325 x 2900	17000	—	‡
BCC 2750P-50	PRP	2750	2200	QSK 78 G9	18 Vee	78.00	583	LVSI 804 S2	7000 x 2325 x 2900	17000	—	‡
BCC 3050S-50	ESP	3050	2440	QSK 78 G9	18 Vee	78.00	641	LVSI 804 S2	7000 x 2325 x 2900	17000	—	‡

* Optional

— These models are not available with a baseframe fuel tank. Free standing tanks are available on request.

‡ For details on acoustic packages please contact Broadcrown Sales Department.

For details on Emission Compliant engines please contact Broadcrown Sales Department.

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

Prime and Standby Power (PRP # and ESP #)

Genset models BCC1500P-50 / BCC2200P-50 / BCC2360S-50 have a special rating. Please contact Broadcrown sales department for more information on this rating definition.

All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCC 1010P-50:
engine QST30G4, alternator HCI 634 J, control panel BC 7310

1250kVA to 2200kVA generator sets

MITSUBISHI RANGE 50HZ EMISSION NON-COMPLIANT

3 PHASE 400/230 – 415/240V												
Genset Model	Prime (PRP) or Standby (ESP) Rating	Rating		Engine Specifications				Alternator Model	Open Set Version			Canopy Version
		kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)		Dimensions Length x Width x Height (mm)	Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type
BCM 1250P-50	PRP	1250	1000	S12R-PTA	12 Vee	49.03	259	PI 734 A	4520 x 2090 x 2490	10100	—	ISO-40 HC
BCM 1400S-50	ESP	1400	1120	S12R-PTA	12 Vee	49.03	285	PI 734 B	4520 x 2090 x 2490	10100	—	ISO-40 HC
BCM 1400P-50	PRP	1400	1120	S12R-PTA2	12 Vee	49.03	281	PI 734 B	4520 x 2090 x 2490	10450	—	ISO-40 HC
BCM 1530S-50	ESP	1530	1224	S12R-PTA2	12 Vee	49.03	312	PI 734 C	4520 x 2090 x 2490	10450	—	ISO-40 HC
BCM 1500P-50	PRP	1500	1200	S12R-PTA2	12 Vee	49.03	308	PI 734 C	4520 x 2090 x 2490	10450	—	‡
BCM 1650S-50	ESP	1650	1320	S12R-PTA2	12 Vee	49.03	330	PI 734 C	4520 x 2090 x 2490	10450	—	‡
BCM 1750P-50	PRP	1750	1400	S16R-PTA	16 Vee	65.37	341	PI 734 E	5300 x 2320 x 2570	13100	—	‡
BCM 1900S-50	ESP	1900	1520	S16R-PTA	16 Vee	65.37	374	PI 734 E	5300 x 2320 x 2570	13100	—	‡
BCM 1900P-50	PRP	1900	1520	S16R-PTA2	16 Vee	65.37	393	PI 734 E	5300 x 2320 x 2570	13480	—	‡
BCM 2090S-50	ESP	2090	1672	S16R-PTA2	16 Vee	65.37	430	PI 734 F	5300 x 2320 x 2570	13480	—	‡
BCM 2000P-50	PRP	2000	1600	S16R-F1PTAW2	16 Vee	65.37	450	PI 734 F	5410 x 2405 x 2610	13785	—	‡
BCM 2200S-50	ESP	2200	1760	S16R-F1PTAW2	16 Vee	65.37	490	PI 734 F	5410 x 2405 x 2610	13785	—	‡

— These models are not available with a baseframe fuel tank. Free standing tanks are available on request.

‡ For details on acoustic packages please contact Broadcrown Sales Department.

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCM 1250P-50:
engine S12R-PTA, alternator PI 734 A, remote start control panel

650kVA to 2500kVA generator sets

PERKINS RANGE 50Hz EMISSION NON-COMPLIANT

3 PHASE 400/230 – 415/240V													
Genset Model #	Prime (PRP) or Standby (ESP) Rating	Rating		Engine Specifications					Alternator Model	Open Set Version			Canopy Version
		kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)	Dimensions Length x Width x Height (mm)		Weight (wet) (kg)	Fuel Tank* Capacity (litres)	Enclosure Type	
BCP 650P-50	PRP	650	520	2806A-E18TAG2	6 inline	18.13	125	HCI 544 F	3675 x 1536 x 2200	5850	720	‡	
BCP 700S-50	ESP	700	560	2806A-E18TAG2	6 inline	18.13	141	HCI 544 F	3675 x 1536 x 2200	5850	720	‡	
BCP 750P-50	PRP	750	600	4006-23TAG2A	6 inline	22.92	159	HCI 634 G	4227 x 1832 x 2166	6754	720	‡	
BCP 800S-50	ESP	800	640	4006-23TAG2A	6 inline	22.92	176	HCI 634 G	4227 x 1832 x 2166	6754	720	‡	
BCP 800P-50	PRP	800	640	4006-23TAG3A	6 inline	22.92	175	HCI 634 G	4227 x 1832 x 2166	6754	720	‡	
BCP 850S-50	ESP	850	680	4006-23TAG3A	6 inline	22.92	222	HCI 634 G	4227 x 1832 x 2166	6754	720	‡	
BCP 900P-50	PRP	900	720	4008TAG1A	8 inline	30.56	194	HCI 634 H	4940 x 1950 x 2525	10000	—	‡	
BCP 1000S-50	ESP	1000	800	4008TAG1A	8 inline	30.56	217	HCI 634 H	4940 x 1950 x 2525	10000	—	‡	
BCP 1000P-50	PRP	1000	800	4008TAG2A	8 inline	30.56	226	HCI 634 J	4940 x 1950 x 2525	10000	—	‡	
BCP 1100S-50	ESP	1100	880	4008TAG2A	8 inline	30.56	286	HCI 634 J	4940 x 1950 x 2525	10000	—	‡	
BCP 1250P-50	PRP	1250	1000	4012-46TWG2A	12 Vee	45.48	258	PI 734 A	4815 x 1775 x 2225	11000	—	‡	
BCP 1380S-50	ESP	1380	1104	4012-46TWG2A	12 Vee	45.48	287	PI 734 B	4815 x 1775 x 2225	11000	—	‡	
BCP 1350P-50	PRP	1350	1080	4012-46TAG1A	12 Vee	45.84	282	PI 734 B	5290 x 2020 x 2370	11600	—	‡	
BCP 1480S-50	ESP	1480	1184	4012-46TAG1A	12 Vee	45.84	309	PI 734 B	5290 x 2020 x 2370	11600	—	‡	
BCP 1500P-50	PRP	1500	1200	4012-46TAG2A	12 Vee	45.84	298	PI 734 C	5290 x 2020 x 2370	11600	—	‡	
BCP 1650S-50	ESP	1650	1320	4012-46TAG2A	12 Vee	45.84	329	PI 734 C	5290 x 2020 x 2370	11600	—	‡	
BCP 1725P-50	PRP	1725	1380	4012-46TAG3A	12 Vee	45.86	353	PI 734 E	5290 x 2020 x 2440	12150	—	‡	
BCP 1890S-50	ESP	1890	1512	4012-46TAG3A	12 Vee	45.86	396	PI 734 E	5290 x 2020 x 2440	12150	—	‡	
BCP 1850P-50	PRP	1850	1480	4016TAG1A	16 Vee	61.12	383	PI 734 E	6120 x 2320 x 2965	15430	—	‡	
BCP 2000S-50	ESP	2000	1600	4016TAG1A	16 Vee	61.12	424	PI 734 E	6120 x 2320 x 2965	15430	—	‡	
BCP 2050P-50	PRP	2050	1640	4016TAG2A	16 Vee	61.12	447	PI 734 F	6120 x 2320 x 2965	15430	—	‡	
BCP 2250S-50	ESP	2250	1800	4016TAG2A	16 Vee	61.12	488	PI 734 F	6120 x 2320 x 2965	15430	—	‡	
BCP 2250P-50	PRP	2250	1800	4016-61TRG3A	16 Vee	61.12	488	LVS1 804 R2	6400 x 2320 x 2965	16000	—	‡	
BCP 2500S-50	ESP	2500	2000	4016-61TRG3A	16 Vee	61.12	542	LVS1 804 R2	6400 x 2320 x 2965	16000	—	‡	

* Optional

— These models are not available with a baseframe fuel tank. Free standing tanks are available on request.

‡ For details on acoustic packages please contact Broadcrown Sales Department.

For details on Emission Compliant engines please contact Broadcrown Sales Department.

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100 kPa barometric pressure [110m (361ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCP 1250P-50:
engine 4012TWG2A, alternator PI 734 A, control panel BC 7310

450kVA to 3350kVA generator sets

MTU RANGE 50Hz EMISSION COMPLIANT & NON-COMPLIANT

3 PHASE 400/230 – 415/240V													
Genset Model #	Prime (PRP) or Standby (ESP) Rating	Rating		Engine Specifications					Alternator Model	Open Set Version			Canopy Version
		kVA	kWe	Engine Model	Cylinder Arrangement	Cubic Capacity (litres)	Fuel Cons 100% Load (l/h)	Dimensions Length x Width x Height (mm)		Weight (wet) (kg)	Fuel Tank Capacity (litres)	Enclosure Type	
BCMU 450P-50 E3A	PRP	450	360	10V 1600 G10	10 Vee	17.5	94.2	HCI 534 D	2800 x 1310 x 1500	4400	710	C 6	
BCMU 490S-50 E3A	ESP	490	392	10V 1600 G10	10 Vee	17.5	102.5	HCI 534 D	2800 x 1310 x 1500	4400	710	C 6	
BCMU 495P-50 E3A	PRP	495	396	10V 1600 G20	10 Vee	17.5	103.6	HCI 534 E	2800 x 1310 x 1500	4500	710	C 6	
BCMU 550S-50 E3A	ESP	550	440	10V 1600 G20	10 Vee	17.5	115.1	HCI 534 E	2800 x 1310 x 1500	4500	710	C 6	
BCMU 590P-50	PRP	590	472	12V 1600 G10	12 Vee	21	123.5	HCI 534 F	3000 x 1310 x 1500	5000	710	C 6	
BCMU 650S-50	ESP	650	520	12V 1600 G10	12 Vee	21	136.7	HCI 534 F	3000 x 1310 x 1500	5000	710	C 6	
BCMU 650P-50	PRP	650	520	12V 1600 G20	12 Vee	21	136.7	HCI 534 F	3000 x 1310 x 1500	5000	710	C 6	
BCMU 710S-50	ESP	710	568	12V 1600 G20	12 Vee	21	148.6	HCI 544 F	3000 x 1310 x 1500	5000	710	C 6	
BCMU 800P-50	PRP	800	640	12V 2000 G65 TD	12 Vee	23.88	164.6	HCI 634 G	4160 x 1600 x 2115	5925	—	ISO-20 HC	
BCMU 860S-50	ESP	860	688	12V 2000 G65 TD	12 Vee	23.88	182.1	HCI 634 G	4160 x 1600 x 2115	5925	—	ISO-20 HC	
BCMU 910P-50	PRP	910	728	16V 2000 G25 TD	16 Vee	31.84	188.0	HCI 634 H	4500 x 1690 x 2240	7220	—	ISO-20 HC	
BCMU 1000S-50	ESP	1000	800	16V 2000 G25 TD	16 Vee	31.84	206.6	HCI 634 H	4500 x 1690 x 2240	7220	—	ISO-20 HC	
BCMU 1010P-50	PRP	1010	808	16V 2000 G65 TD	16 Vee	31.84	206.6	HCI 634 J	4500 x 1690 x 2240	7220	—	ISO-20 HC	
BCMU 1100S-50	ESP	1100	880	16V 2000 G65 TD	16 Vee	34.84	227.5	HCI 634 J	4500 x 1690 x 2240	7220	—	ISO-20 HC	
BCMU 1130P-50	PRP	1130	904	18V 2000 G65 TD	18 Vee	35.82	236.8	PI 734 A	4770 x 2130 x 2490	8485	—	‡	
BCMU 1240S-50	ESP	1240	992	18V 2000 G65 TD	18 Vee	35.82	261.8	PI 734 A	4770 x 2130 x 2490	8485	—	‡	
BCMU 1250P-50	PRP	1250	1000	12V 4000 G21R	12 Vee	57.2	242.0	PI 734 A	5260 x 2310 x 3220	13500	—	‡	
BCMU 1375S-50	ESP	1375	1100	12V 4000 G21R	12 Vee	57.2	266.6	PI 734 A	5260 x 2310 x 3220	13500	—	‡	
BCMU 1400P-50	PRP	1400	1120	12V 4000 G23R	12 Vee	57.2	271.5	PI 734 B	5260 x 2310 x 3220	14000	—	‡	
BCMU 1540S-50	ESP	1540	1232	12V 4000 G23R	12 Vee	57.2	298.6	PI 734 B	5260 x 2310 x 3220	14000	—	‡	
BCMU 1650P-50	PRP	1650	1320	12V 4000 G23	12 Vee	57.2	319.6	PI 734 D	5260 x 2310 x 3220	14300	—	‡	
BCMU 1770S-50	ESP	1770	1416	12V 4000 G23	12 Vee	57.2	356.4	PI 734 D	5260 x 2310 x 3220	14300	—	‡	
BCMU 1800P-50	PRP	1800	1440	12V 4000 G63	12 Vee	57.2	356.4	PI 734 E	5260 x 2310 x 3220	14300	—	‡	
BCMU 2000S-50	ESP	2000	1600	12V 4000 G63	12 Vee	57.2	402.1	PI 734 E	5260 x 2310 x 3220	14300	—	‡	
BCMU 2100P-50	PRP	2100	1680	16V 4000 G23	16 Vee	76.3	404.7	PI 734 F	6080 x 2310 x 3220	17380	—	‡	
BCMU 2200S-50	ESP	2200	1760	16V 4000 G23	16 Vee	76.3	440.0	PI 734 F	6080 x 2310 x 3220	17380	—	‡	
BCMU 2200P-50	PRP	2200	1760	16V 4000 G63	16 Vee	76.3	440.0	PI 734 G	6080 x 2310 x 3220	17380	—	‡	
BCMU 2250P-50	PRP	2250	1800	16V 4000 G63	16 Vee	76.3	499.5	LVSI 804 R2	6150 x 2310 x 3220	17500	—	‡	
BCMU 2360S-50	ESP	2360	1888	16V 4000 G63	16 Vee	76.3	499.5	PI 734 G	6080 x 2310 x 3220	17380	—	‡	
BCMU 2500S-50	ESP	2500	2000	16V 4000 G63	16 Vee	76.3	499.5	LVSI 804 R2	6150 x 2310 x 3220	17500	—	‡	
BCMU 2500P-50	PRP	2500	2000	20V 4000 G23	20 Vee	95.4	502.9	LVSI 804 S2	6920 x 2360 x 3200	20480	—	‡	
BCMU 2750S-50	ESP	2750	2200	20V 4000 G23	20 Vee	95.4	547.5	LVSI 804 S2	6920 x 2360 x 3200	20480	—	‡	
BCMU 2800P-50	PRP	2800	2240	20V 4000 G63	20 Vee	95.4	547.5	LVSI 804 S2	6920 x 2360 x 3200	20480	—	‡	
BCMU 3050S-50	ESP	3050	2440	20V 4000 G63	20 Vee	95.4	601.0	LVSI 804 S2	6920 x 2360 x 3200	20480	—	‡	
BCMU 3050P-50	PRP	3050	2440	20V 4000 G63L	20 Vee	95.4	583.0	LVSI 804 T2	6650 x 2600 x 3300	21900	—	‡	
BCMU 3350S-50	ESP	3350	2680	20V 4000 G63L	20 Vee	95.4	644.8	LVSI 804 T2	6650 x 2600 x 3300	21900	—	‡	

— These models are not available with a baseframe fuel tank. Free standing tanks are available on request.

‡ For details on acoustic packages please contact Broadcrown Sales Department.

For details on Emission Compliant engines please contact Broadcrown Sales Department.

RATING DEFINITIONS

Prime Power (PRP)

These ratings are suitable for continuous operation in a variable load application in lieu of the main power network. There is no limitation to the annual hours of operation. An overload of up to 10% is available for 1 hour in every 12 hours of operation (See relevant data sheet on our website for details).

Standby Power (ESP)

These ratings are suitable for the supply of emergency power in a variable load application in the event of a main power network failure for a limited number of hours per year. No overload is available.

All 3 phase ratings at 0.8 Power Factor.

STANDARD REFERENCE CONDITIONS

Output ratings are based on gensets operating at: 25°C (77°F) air inlet temperature, 100kPa barometric pressure [100m (328ft) altitude] and 30% relative humidity. For de-rating, please contact Broadcrown Sales Department.

NOTES

All data in accordance with ISO3046, DIN6271, ISO8528 standards. Other voltages available, please refer to Data Sheet or consult Broadcrown Sales Department. Specifications and design subject to change without notice.

For updates refer to our website, www.broadcrown.com



BCMU 2800P-50:
engine 20V 4000 G63, alternator LVSI 804 S2



Specifications and Options

Broadcrown offers a comprehensive range of mechanical and electrical options for all generator sets.

The table opposite shows the main specifications for each standard generator set model and the options available.

Load transfer panels
A range of automatic load transfer panels is also available. These incorporate either 3 pole or 4 pole electrically and mechanically interlocked contactors or circuit breakers (from 25 amps to 6300 amps) which are CE Compliant.

- Special requirements**
If you do not see exactly what you want, contact our sales department or local regional sales office. We can meet special requirements such as:
- Generator sets in excess of 3350kVA Standby Power
 - Multi-set installations
 - HV generation
 - Stringent noise levels
 - Remote cooling
 - Bespoke control panels using alternative generator set controllers or with PLC control
 - Special acoustic enclosure design
 - Alternative engine and alternator combinations

We will work with you to provide precisely the right power solution.

Specifications and Options

		Midi Range	John Deere Range	Volvo Range	Cummins Range	Mitsubishi Range	Perkins Range	MTU
Engine	4-stroke water cooled diesel engine	●	●	●	●	●	●	●
	Mechanical governor	▼	▼		▼			
	Electronic governor	▼	▼	●	▼	●	●	●
	Air intake heater or glow plug	▼	▼	○	○▼			
	Lub oil drain valve	●	●	●	●	●	●	●
	Lub oil drain extended to baseframe	○	○	○	○▼			
	Manual lub oil drain pump		○	○	○	○	○	○
	Coolant drain extended to edge of baseframe	○	○	○				
	First fill of lub oil	●	●	●	●	●	●	●
	Standard air filter	●	●	●	●	●	●	●
	Medium duty air filter	▼	○	○				
	Fuel filter and water separator	●	○	●	○	○	○	○
	Exhaust manifold guard		○	○	▼		○	○
	Coolant heater	○	○	○	○	○	○	○
	Automatic lub oil refill system				○▼	○	○	○
Radiator	Engine driven radiator	●	●	●	●	●	●	▼
	Fan guards	●	●	●	●	●	●	●
	Coolant drain valve	●	●	●	●	●	●	●
	First fill of coolant / antifreeze	●	●	●	●	●	●	●
	Low level vent and fill pipework				○▼	○	○	○
	Low level manual fill pump				○▼	○	○	○
Alternator	Single bearing alternator	●	●	●	▼	●	●	▼
	Class H insulation system and Class H temperature rise	●	●	●	●	●	●	●
	IP23 Protection	●	●	●	●	●	●	●
	Automatic Voltage Regulator with 1% voltage regulation	●	●	●	▼		▼	▼
	Automatic Voltage Regulator with 0.5% voltage regulation		○	○	▼	●	▼	▼
	PMG excitation		○	○	▼	●	●	●
	Anti condensation heater	○	○	○	○	○	○	○
	Quadrature droop kit	○	○	○	○	○	○	○
	Air inlet filter		○	○	○	○	○	○
	Thermistor probes and control box		○	○	○	○	○	○
General	Powder coated fabricated steel baseframe	●	●	●	●	●	●	●
	Built in anti-vibration mountings	●	●	●	▼	●	▼	●
	Crane and fork lifting points depending on model	●	●	●	●	●	●	●
	Operation and maintenance manual	●	●	●	●	●	●	●
	Operation and maintenance manual (additional copies)	○	○	○	○	○	○	○
	Standard colour (black/yellow)	●	●	●	●	●	●	●
	Output 3 pole circuit breaker	●	●	●	▼	○	○	▼
	Works test	●	●	●	●	●	●	●
	Genset packed under heavy duty shrink wrap plastic	●	●	●	●	●	●	●
	Control Panel	●	●	●	●	●	●	●
Acoustic enclosure	○	○	○	○	○	○	○	
Exhaust	Industrial 15dBA reduction silencer supplied loose	●	●	●	▼	○	○	○
	Industrial 15dBA reduction silencer not supplied - price reduction		○	○	○▼			
	Residential 24dBA reduction silencer supplied loose		○	○	○	○	○	○
	Critical 35dBA reduction silencer supplied loose		○	○	○	○	○	○
	Flexible bellows supplied loose	●	●	●	▼	○	○	○
	Set of connection flanges for silencer/bellows		○	○	○	○	○	○
Starting	12VDC electric starter motor	●	●		▼			
	24VDC electric starter motor			●	▼	●	●	●
	Battery charging alternator	●	●	●	●	●	●	●
	Engine starting battery with cables and battery tray	●	●	●	●	●	●	●
	Wet type batteries instead of dry (not available with sea freight)	○	○	○	○	○	○	○
Non-supply of batteries - price reduction	○	○	○	○	○	○	○	
Fuel	Integral single skin fuel tank within baseframe	●	●	●	▼		○▼	○▼
	Flexible fuel feed and return lines	●	●	●	●	●	●	●
	Baseframe with integral bund (without fuel tank)				○▼	○	○	○
	Baseframe with integral bund and drop in fuel tank		○	○	○▼		○▼	○▼
	Low fuel level switch - single point	○	○	○	○	○	○	○
	Fuel level switch - four point		○	○	○	○	○	○
	Manual fuel transfer pump		○	○	○		▼	▼
	Fuel transfer system - Option 1 Gravity System		○	○	○		▼	▼
	Fuel transfer system - Option 2 Electric Pump System		○	○	○		▼	▼
Fuel transfer system - Option 3 Gravity and Pump System		○	○	○		▼	▼	

- Standard Equipment
- Available as an option
- ▼ Model Dependent (refer to Broadcrown Sales Department)

Acoustic Packages

Our acoustic packages are designed to operate in the harshest outdoor environments providing excellent security and acoustic performance.

broadCrown



Acoustic canopies

We have developed a standard range of acoustic canopies for generator sets up to 700kVA.

Finish

All our steel canopy components are pre-treated and polyester powder coated (to a typical thickness of 70-80µm) in RAL9001 white and all baseframes are finished in RAL9005 black. This, along with zinc-plated fasteners and neoprene seals combine to produce a very durable and attractive finish.

Performance

Our canopies are designed to meet the requirements of EU Legislation 2000/14/EC. This performance level is met by the extensive use of fire-retardant polyurethane foam and efficient management of cooling air. Exhaust noise is minimized by high-performance silencers mounted internally.

Integrated fuel tank

A steel fuel tank, complete with filler, gauge and accessory points, is integrated within the baseframe on all canopies except Midi. Alternatively, we can provide baseframes with a bund and separate tank. The Midi canopies have a compact tank moulded in tough polypropylene with visual level

indication and are mounted within the baseframe.

Key features include:

- Gull-wing or side opening doors
- Panel/breaker access door with viewing window
- Heavy duty locks on all doors
- Weather cap on exhaust discharge
- Emergency Stop button on canopy exterior
- Lifting and holding down points
- Fork Lift pockets (up to Canopy 4A)
- Single roof lifting point (available on certain models only)

Acoustic Packages

STANDARD PRODUCT RANGES 6kVA–2000kVA

Acoustic Containers

Our acoustic containers are attractive, robust, easy to transport and deliver effective acoustic performance.

These container packages are based on standard ISO 20 ft and 40 ft high cube shipping containers for ease of transport by sea or land.

Construction

Our acoustic containers are fully welded and fitted with rock wool and a perforated zintec steel lining to achieve greater acoustic performance. The internally mounted silencers are custom designed to reduce exhaust noise. A two-pack polyurethane paint system provides a durable finish and all doors are fitted with high-security locks.

Fuel tank

Some models (dependent on engine type) can be supplied with integral fuel tank.

Options include

- Interior lighting and small power
- Motorised air inlet/outlet dampers
- External fuel connections
- External auxiliary power connections
- Lub oil make-up tank
- CSC Plating

	Enclosure Type	Dimensions (mm) (L x W x H)	Weight (kg) *	Typical Sound Pressure Level		Fuel Tank Capacity (litres)		Single Centre Point Lift
				dB(A)@1m	dB(A)@7m	Integral	Bunded	
M1	Midi 1 Canopy	1810 x 950 x 1190	125	73	63	55	—	●
M2	Midi 2 Canopy	2110 x 890 x 1240	195	74	64	95	—	○
C1	Canopy 1	2270 x 890 x 1620	235	77	67	115	100	○
C2	Canopy 2	2800 x 1110 x 1790	450	78	68	240	200	○
C3	Canopy 3	3550 x 1160 x 1800	725	80	70	460	400	
C4	Canopy 4	3940 x 1300 x 1940	770	80	70	570	500	
C4A	Canopy 4A	4000 x 1440 x 2120	1150	80	70	665	615	
C5	Canopy 5	5200 x 1740 x 2200	2400	77	67	985	895	○
C6	Canopy 6	5500 x 1740 x 2360	2950	80	70	1025	895	○
C7	Canopy 7	5900 x 2040 x 2480	3520	80	70	1430	1300	○
ISO-20	ISO 20ft Container	6060 x 2440 x 2770	—	80	70	—	—	
ISO-20 HC	ISO 20ft Container 'High Cube'	6060 x 2440 x 3075	—	80	70	—	—	
ISO-40 HC	ISO 40ft Container 'High Cube'	12200 x 2440 x 3075	—	80	70	—	—	

Typical SPL is a mean level, measured in free field conditions, with no contributory background noise.

● Standard Equipment

○ Available as an option

* Indicative weight additional to open set



BC 7210E-M

Control Panels: Midi Range generator sets

Our control panels combine user friendly interfaces with detailed management functionality.

We equip all of our Midi Range generator sets with a baseframe-mounted control panel. Each control panel incorporates a Deep Sea control module together with integral stand and circuit breaker ensuring a dependable and user-friendly operating system.

BC 7210E-M Manual and Auto Start

This is an entry level digital control system, which provides manual and remote control of the generator set, with operating parameters clearly shown on a LCD display. Full power monitoring and protection facilities are incorporated including display of kW, kVA and power factor.

BC 7210-M Manual and Auto Start

Cost effective with all the features of the BC 7210E-M plus digital display of water temperature and oil pressure.

BC 7310-M Manual and Auto Start plus Telemetry

All the features of the BC 7210-M plus data communication, this system enables full telemetry via the RS 232/485 interfaces. Facility to integrate with SAE J1939 CANBus is also included.

BC 7320-M Auto Mains Failure

All the features of the BC 7310 plus full AMF functionality with integrated mains monitoring.

BC 701E-M Manual Start with Key Control

A popular basic control panel, this provides manual control of the generator set giving essential machine protection and analogue displays of volts and amps.

BC 701-M Manual Start with Key Control

All the features of the BC 701E-M plus analogue engine instruments and a frequency meter.

Range	BC 701E-M	BC 701-M	BC 7210E-M	BC7210-M	BC7310-M	BC7320-M
'Midi' Range						
Mitsubishi	○	○	●	○	○	○
John Deere	○	○	●	○	○	○
Lister	○	○	●	○	○	○
Yanmar	○	○	●	○	○	○
Cummins	○	○	●	○	○	○

- Standard Equipment
- Available as an option

Control Panels for Midi Range

STANDARD SPECIFICATIONS

	Features	BC 701E-M	BC 701-M	BC 7210E-M	BC 7210-M	BC 7310-M	BC 7320-M
Deep Sea Control Module	701 Key Start	●	●				
	7210 Digital Auto Start			●	●		
	7310 Digital Auto Start					●	
	7320 Digital Auto Mains Failure						●
Engine Instruments	Coolant Temperature - Analogue		●				
	Lub. Oil Pressure - Analogue		●				
	Engine Hours Counter - Analogue	●	●				
	Battery Charge Amps - Analogue		●				
	Coolant Temperature - Digital				●	●	●
	Lub. Oil Pressure - Digital				●	●	●
	Engine Hours Counter - Digital			●	●	●	●
	Battery Volts - Digital			●	●	●	●
Engine Protection	Low Oil Pressure Shutdown	●	●	●	●	●	●
	Low Oil Pressure Pre-Alarm			●	●	●	●
	High Water Temperature Shutdown	●	●	●	●	●	●
	High Water Temperature Pre-Alarm			●	●	●	●
	Low Fuel Level (incl. volt free contact) [1]	○	○	○	○	○	○
	Underspeed			●	●	●	●
	Overspeed	●	●	●	●	●	●
	Cool Down Timer			●	●	●	●
	Fail To Start Indication			●	●	●	●
	Charge Alternator Fail Warning	●	●	●	●	●	●
	Low / High Battery Volts (alarm)			●	●	●	●
	Generator Instruments	Voltmeter - Analogue	●	●			
Ammeter - Analogue		●	●				
4-Position Ammeter Selector Switch		●	●				
Frequency Meter - Analogue			●				
Volts, Amp, Frequency - Digital				●	●	●	●
kW, kVA, pf - Digital				●	●	●	●
Generator Protection	Under & Over Volts (pre-alarm & shutdown)			●	●	●	●
	Over Current (shutdown)			●	●	●	●
Other Key Features	Emergency Stop	●	●	●	●	●	●
	Battery Charger & Control Switch	○	○	○	○	○	○
	Engine Heater & Control Switch	○	○	○	○	○	○
	Preheat - Air intake heater / Glow Plug [2] [3]	○	○	○	○	○	○
	Telemetry Facility					●	●
	Integrated Mains Monitoring						●
Volt Free Contacts	Battery Charger Fail	○	○	○	○	○	○
	Generator Running	○	○	○	○	○	○
	Common Alarm [2]			○	○	○	○
	System In Auto [2]			○	○	○	
	Telemetry Active [2]					○	
	Charge Alternator Fail [2]			○	○	○	
	Available Auxiliary Inputs / Outputs	1 / -	1 / -	4 / 3	4 / 3	6 / 3	6 / 3

- [1] Auxiliary Input Required
 [2] Auxiliary Output Required
 [3] Standard on Yanmar & Mitsubishi

- Standard Equipment
 ○ Available as an option

NB: If the number of protection options exceeds the number of available inputs, discreet fault indications cannot be provided.



BC 7210

Control Panels:

Standard Range generator sets

Our control panels extend from models offering basic manual and remote control to full synchronisation of multiple sets.

We equip all of our Standard range of generator sets with a baseframe-mounted control panel. Each control panel incorporates a Deep Sea control module together with integral stand and circuit breaker ensuring a dependable and user-friendly operating system.

BC 7210 Manual and Auto Start

This is an entry level digital control system, which provides for manual and remote control of the generator set, with operating parameters clearly shown on a LCD display. Full power monitoring and protection facilities are incorporated including display of kW, kVA and power factor.

BC 7310 Manual and Auto Start plus Telemetry

All the features of the BC 7210 plus data communication, this system enables full telemetry via the RS 232/485 interfaces. Facility to integrate SAE J1939 CANBus is also included. All engines with onboard ECU/CANBus have this control as standard.

BC 7320 Auto Mains Failure

All the features of the BC 7310 plus full AMF functionality with integrated mains monitoring.

BC 7510 Synchronising (set to set)

In order to meet the ever more challenging requirements of multi-set operation, this control system affords set-to-set synchronisation and load sharing.

BC 7520 Synchronising (single set to mains)

This control system is used for a single set to be synchronised with the mains supply giving a no break return together with soft load transfer.

BC 701 Manual Start with Key Control

A popular basic control panel which provides for the manual control of the generator set giving essential machine protection and analogue displays of basic operating parameters.

BC 7560 Synchronising (multi set to mains)

This is a separate control unit which enables multiple BC 7510 equipped sets to be synchronised with the mains supply.

Features	BC 701	BC 7210	BC 7310	BC 7320	BC 7510	BC 7520
John Deere						
BCJD 22-50 to 275-50		●	○	○	○	○
BCJD 15-50SP to 74-50SP	○	●	○	○	○	○
BCJD 42-50 E2 to 64-50 E2						
BCJD 15-50SP E2 to 45-50SP E2						
BCJD 330-50 to 440-50			●	○	○	○
BCJD 88-50 E2 to 330-50 E2	[C]					
BCJD 60-50SP E2 to 74-50SP E2						
Volvo						
All BCV models	[C]		●	○	○	○
Cummins						
BCC 39-50, 44-50, 55-50, 64-50, 55-50 E2, BCC 110-50, 138-50, 175-50, 330-50, 350-50, 400-50 BCC 650P-50, 700S-50, 1000P-50 BCC 1100S-50, 1250P-50, 1400S-50 BCC 1400P-50, 1500P-50, 1660S-50 BCC 32-50 SP, 40-50 SP, 48-50 SP, 75-50 SP, 100-50SP		●	○	○	○	○
BCC 92-50 E3A to 330-50 E3A BCC 440-50 E2 to 550-50 E2 BCC 650P-50 L, 700S-50 L, 800P-50, 850S-50 BCC 1010P-50, 1110S-50, 1410S-50 BCC 1540P-50 L, 1700S-50 L BCC 1875P-50, 2000S-50, 1825P-50 L, 2000S-50 L BCC 2000P-50, 2250S-50, 2000P-50 L, 2250S-50 L BCC 2200P-50, 2360S-50, 2500P-50, 2750S-50 BCC 2750P-50, 3050S-50 BCC 1275P-50, 1400S-50 BCC 65-50 SP E3A, 75-50 SP 3EA	[M]		●	○	○	○
MTU						
All BCMU models	[C]		●	○	○	○
Perkins						
All BCP models.			●	○	○	○
Mitsubishi						
All BCM models		●	○	○	○	○

- Standard Equipment
- Available as an option
- [C] SAE J1939 CANBus Interface
- [M] MODBus / RS485 Interface

Control Panels for Standard Range

STANDARD SPECIFICATIONS

	Features	BC 701	BC 7210	BC 7310	BC 7320	BC 7510	BC 7520
Deep Sea Control Module	701 Key Start	●					
	7210 Digital Auto Start		●				
	7310 Digital Auto Start CANBus			●			
	7320 Digital Auto Mains Failure CANBus				●		
	7510 Digital - Set-Set Synchronisation					●	
	7520 Digital - Single Set-Mains Synch. 7560 Module - Multi Set-Mains Synch.					○	●
Engine Instruments	Coolant Temperature - Analogue	●					
	Lub. Oil Pressure - Analogue	●					
	Lub. Oil Temperature - Analogue	○				○	○
	Engine Hours Counter - Analogue	●					
	Battery Charge Amps - Analogue	●					
	Coolant Temperature - Digital		●	●	●	●	●
	Lub. Oil Pressure - Digital		●	●	●	●	●
	Lub. Oil Temperature - Digital [3]			○	○		
Engine Protection	Engine Hours Counter - Digital		●	●	●	●	●
	Battery Volts - Digital		●	●	●	●	●
	Low Oil Pressure Shutdown	●	●	●	●	●	●
	Low Oil Pressure Pre-Alarm		●	●	●	●	●
	High Oil Temp Alarm or Shutdown (incl. visual indication) [1] [3]	○	○	○	○	○	○
	High Water Temperature Shutdown	●	●	●	●	●	●
	High Water Temperature Pre-Alarm		●	●	●	●	●
	Low Coolant Level Alarm or Shutdown [1] [3]		○	○	○	○	○
	Low Fuel Level (incl. volt free contact) [1]	○	○	○	○	○	○
	Fuel Leak Detection (only with bunded tank option) [1]	○	○	○	○	○	○
	Underspeed		●	●	●	●	●
	Overspeed	●	●	●	●	●	●
	Cool Down Timer		●	●	●	●	●
Fail To Start Indication		●	●	●	●	●	
Charge Alternator Fail Warning	●	●	●	●	●	●	
Low / High Battery Volts (alarm)		●	●	●	●	●	
Generator Instruments	Analogue Voltmeter with 7-Position Selector Switch	●					
	Analogue Ameter with 4-Position Selector Switch	●					
	Analogue Frequency Meter	●					
	Volts, Amps, Frequency - Digital kW, kVA, pf - Digital		●	●	●	●	●
Generator Protection	Under & Over Volts (pre-alarm & shutdown)		●	●	●	●	●
	Over Current (Shutdown)		●	●	●	●	●
	Breaker Tripped (shutdown) / Shunt Trip Via Controller [1] [2]		○	○	○	○	○
	Earth Fault Protection - Restricted / Un-restricted		○	○	○	○	○
Other Key Features	Emergency Stop	●	●	●	●	●	●
	Battery Charger & Control Switch	○	○	○	○	○	○
	Engine Heater & Control Switch	○	○	○	○	○	○
	Preheat - Air intake heater / Glow Plug [2]	○	○	○	○	○	○
	SAE J1939 CANBus Interface [3]			●	●	●	●
	Integrated Mains Monitoring				●		●
	Telemetry Facility			●	●	●	●
Volt Free Contacts	Battery Charger Fail	○	○	○	○	○	○
	Generator Running	○	○	○	○	○	○
	Common Alarm [2]		○	○	○	○	○
	System In Auto [2]		○	○	○	○	○
	Telemetry Active [2]			○	○	○	○
	Charge Alternator Fail [2]		○	○	○	○	○
	Low Battery Volts [2]			○	○	○	○
	Generator Contactor (ready to load)		●	●		●	
	Mains + Generator 'Contactor' Control				●		●
	Mains + Generator 'Breaker' Control						○*
	Available Auxiliary Inputs / Outputs	1 / -	4 / 4	6 / 4	6 / 4	5 / 2**	4 / 3**
Relay Expansion Board (max 8 outputs)			○	○	○	○	

- [1] Auxiliary input required
 [2] Auxiliary output required
 [3] Standard on engines with J1939 canbus only (no input required)

- Standard Equipment
 ○ Available as an option
 * Only one auxiliary output available with this option
 ** Relay expansion board standard on BCV models — additional 6 auxiliary outputs available.

NB: If the number of auxiliary outputs required exceeds the number available, select in addition the relay expansion board option (E114-11)



Remote start

Control Panels:

Large Bespoke generator sets

These control panels combine the ultimate in sophisticated operation with straightforward user interfaces.

This series of control panels use modular and standard components specifically designed for large, bespoke generator sets

Control Panel

All control panels are set mounted. They provide the highest degree of reliability and user-friendly operation. The control panel contains an integrated generator set controller that combines all the necessary control, protection and instrumentation for a generator set in one compact unit. A comprehensive display of instrumentation, alarms and parameters is shown on a graphical LCD screen with the various alarms and control settings easily adjustable.

Entry Level

The entry level for the market is a remote start system, however, generator sets can be provided with alternative control panels offering Automatic Mains Failure (AMF) capability and synchronising facilities.

Additional Models

Further models include multi-set synchronisation and load sharing functions together with single set-to-mains supply synchronisation, and multi-set-to-mains supply synchronisation. Network (G59) protection is also available by the addition of an integrated protection relay for generator sets operating in parallel with the mains supply.

Controllers

We offer generator set controllers with additional facilities dependent on the model, such as MODBUS protocol for remote interrogation by BMS/SCADA systems, a 100+ record data log/history file for recording alarms/control events and an engine service interval timer to indicate engine service due date.

Please refer to the detailed specifications to check standard features and see available options.

Control Panels for Large Bespoke generator sets

STANDARD SPECIFICATIONS

	Features	Remote Start	AMF	Generator Parallel	Mains Parallel (Single Set)	Mains Parallel (Multi-Set)
Control Function	Remote Start Control	●				
	AMF Control		●			
	Set to set synchronisation			●		
	Single Set to mains supply synchronisation				●	
	Multi-Set to mains supply synchronisation					●
Engine Instruments	Coolant Temperature	●	●	●	●	●
	Lub. Oil Pressure	●	●	●	●	●
	Lub. Oil Temperature	○	○	○	○	○
	Counters - Engine Hours/Starts/Service Due	●	●	●	●	●
	Battery Volts	●	●	●	●	●
	Engine Speed RPM	●	●	●	●	●
	Exhaust Temperature	○	○	○	○	○
	Fuel Level	○	○	○	○	○
Engine Protection	Low Oil Pressure Pre-Alarm & Shutdown	●	●	●	●	●
	High Oil Temp Pre-Alarm	○	○	○	○	○
	High Oil Temp Shutdown	○	○	○	○	○
	High Water Temperature Pre-Alarm & Shutdown	●	●	●	●	●
	Low Coolant Level Shutdown	○	○	○	○	○
	Low Coolant Temperature Shutdown	○	○	○	○	○
	Battery Voltage Alarm	●	●	●	●	●
	Fail To Start	●	●	●	●	●
	Overspeed	●	●	●	●	●
	Low Fuel Level Pre-Alarm	○	○	○	○	○
	Low Fuel Level Shutdown	○	○	○	○	○
	Fire Valve Operated Shutdown	○	○	○	○	○
Generator Instruments	Voltage, Ph-Ph & Ph-N	●	●	●	●	●
	Current L1, L2, L3	●	●	●	●	●
	Frequency	●	●	●	●	●
	Kilowatts	●	●	●	●	●
	kWh, kVA, kVAh, Power Factor	●	●	●	●	●
	Bus Voltage			●		
	Bus Frequency			●		
Mains Inst	Mains Voltage		●		●	●
	Mains Frequency		●		●	●
	Mains kW, kVAh, Power Factor				●	●
Generator Protection	Undervoltage & Overvoltage	●	●	●	●	●
	Underfrequency & Overfrequency	●	●	●	●	●
	Overcurrent (instantaneous) & IDMT	●	●	●	●	●
	Overload	●	●	●	●	●
	Current & Voltage Imbalance	●	●	●	●	●
	Phase Rotation	●	●	●	●	●
	Restricted Earth Fault	○	○	○	○	○
	High Alternator Winding Temperature	○	○	○	○	○
	Circuit Breaker Tripped	○	○	○	○	○
	Reverse Power			●	●	●
	Fail to synchronise			●	●	●
	Mains Protection	Under & Over Voltage		●		●
Under & Over Frequency			●		●	●
Voltage Imbalance			●		●	●
Phase Rotation			●		●	●
Other Key Features	Off/Man/Auto Control	●	●	●	●	●
	Start/Stop/Fault Reset Pushbuttons	●	●	●	●	●
	Emergency Stop	●	●	●	●	●
	Mode Lock Key Switch	○	○	○	○	○
	Engine Speed Control (for synch and load control)			●	●	●
	Alternator Voltage Control (for voltage matching and PF control)			●	●	●
	Manual Mains and Generator Circuit Breaker Operation			●	●	●
	Engine Heater Controls	●	●	●	●	●
	Alternator Heater Controls	○	○	○	○	○
	Panel Heater Controls	○	○	○	○	○
	Battery Charger Controls	●	●	●	●	●
	Generator Available & Not In Auto Indication	●	●	●	●	●
	Ready For Load Signal (volt free contact)	●				
	Generator Breaker Control (volt free contact)		●	●	●	●
	Mains Breaker Control (volt free contact)		●		●	●
	Common Alarm Signal (volt free contact)	●	●	●	●	●
	Generator Running Signal (volt free contact)	○	○	○	○	○
	Maintenance Attention Required Signal (volt free contact)	●	●	●	●	●
	Audible Alarm Sounder	○	○	○	○	○
RS232 Port (MODBUS Protocol) *	○	○	●	●	●	
Data Log Facility			●	●	●	
Additional Modules	Network (G59) Protection Relay					
	Under/Over Voltage and Frequency				○	○
	Voltage Assymetry				○	○
	Phase Rotation				○	○
	Vector Shift				○	○
	Mains Reverse Power				○	○
	Mains Control Module					
Mains synchroniser and load control					●	

- Standard Equipment
- Available as an option

* Not available on some Cummins engines – refer to factory.



Broadcrown is independently owned and managed. When you contact us you are talking to friendly people who will work with you to meet your specific needs.

Our generator set range includes:

- Diesel and gas powered
- Trailer mounted, diesel powered
- Gas and co-generation
- Oil and gas
- Marine
- Medium speed
- Gas turbines
- Bespoke
- Rental

We also provide a wide range of static and rotary Uninterruptible Power Supply (UPS) systems.

Production Facilities

All Broadcrown products are designed and manufactured in our purpose-built factories at our corporate headquarters in Hixon, England and in Newtown, Wales.

Brochures are available for all our products and services on our website, www.broadcrown.com

FRONT COVER

London's Canary Wharf is home to more than 25 generating sets supplied, installed and commissioned by Broadcrown. The units range from 1000 to 2500kVA, LV and HV providing essential back up power.

BACK COVER

Broadcrown provides power to the King Fahd's Stadium in Riyadh comprising of 2 x 600kVA generating sets powered by Mirrlees Blackstone E-Type diesel engines and 2 x 1500kVA generating sets powered by Ruston diesel engines all running at 900 r.p.m. 60Hz.



broadcrown[®]

leading world power

GROUP HEADQUARTERS

Broadcrown Ltd
Airfield Industrial Estate
Hixon, Stafford
Staffs ST18 0PF
England

tel: +44 (0) 1889 272200
fax: +44 (0) 1889 272220
email: info@broadcrown.co.uk
www.broadcrown.co

INTERNATIONAL NETWORK

Our growing international network of distributors backed by the Broadcrown Regional Support Centres of Miami, Singapore, Nigeria, South Africa, India and China, provides worldwide product availability and after sales support including training.

Broadcrown (China) Ltd

Room 1503, Tower B, SOHO Newtown
88 Jianguo Avenue, Chaoyang Dist.
Beijing
China 100022
tel: +86 (0) 10 8589 3698
fax: +86 (0) 10 8589 5771
email: info@broadcrown.com.cn
www.broadcrownchina.com

Broadcrown Singapore Pte Ltd

3791 Jalan Bukit Merah
#05-08
E-Centre @ Redhill
Singapore 159471
tel: +65 6235 3630
fax: +65 6732 4355
email: info@broadcrown.com.sg
www.broadcrownsingapore.com

Broadcrown (West Africa) Ltd

4/6 Kudirat Abiola Way
Alausa, Ikeja, Lagos
Nigeria
tel: +234 1 761 7107
email: info@broadcrown.com.ng
www.broadcrownwestafrica.com

Broadcrown SA (Pty) Limited

Office Address:
Unit 1 Atom Park, Neutron Street
Stickland 7530
South Africa

Postal Address:
PO Box 1065
Durbanville 7551
South Africa
tel: +27 21 946 3463
fax: +27 21 946 3953
email: info@broadcrown.co.za
www.broadcrownsouthafrica.com

Broadcrown Inc

9705 NW 108th Avenue, Suite 10
Miami, Florida 33178
USA
tel: +1 305 888 1414
fax: +1 305 888 1801
email: info@broadcrownusa.com
www.broadcrownusa.com

Broadcrown India (PVT) Ltd.

R-06 A, 3rd Floor
MGF Plaza
Mehrauli-Gurgaon Road
Gurgaon – 122002
Haryana
India
email: info@broadcrownindia.com
www.broadcrownindia.com

www.broadcrown.com

