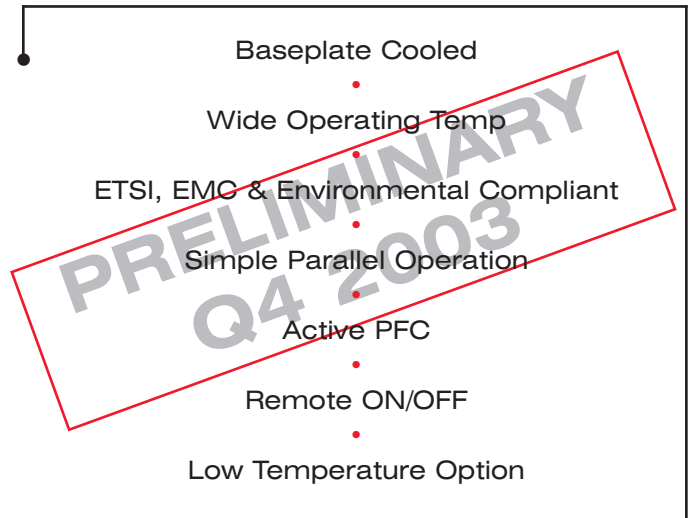
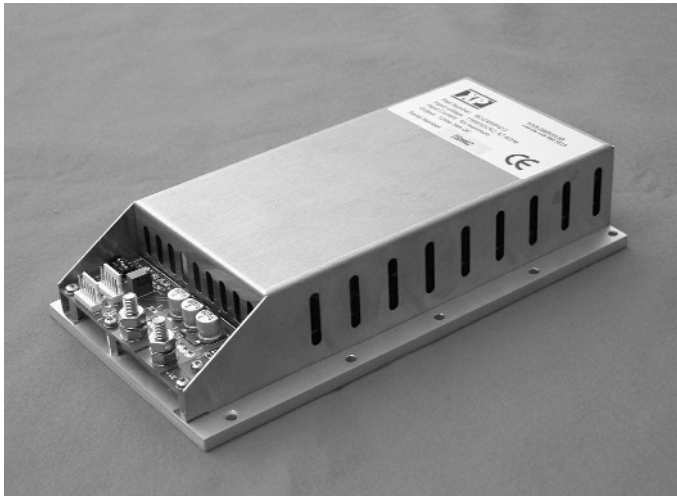


# AC/DC Industrial Type

## 200-400 Watts BCC Series

**XPiQ inc.**

Intelligent Design Quality Product



## Specification

### Input

- Input Voltage** • 90-264 VAC
- Harmonics** • EN61000-3-2 (Active PFC)
- Fuse Protection** • Input PCB mounted

### Output

- Output Power** • See Table
- Output Voltage** • See Table
- Output Voltage Adjustment** • -6 to +10% Vnom
- Output Current** • See Table
- Output Set Tolerance** • ±1% nominal
- Load Regulation** • See Table
- Ripple & Noise** • <150 mV pk-pk, 20 MHz bandwidth
- Hold Up Time** • 10 ms at low line (90 V), rated output
- Minimum Load** • No minimum load
- Overload Protection** • 105-135% constant current limiting with auto recovery
- Overvoltage Protection** • 105-140% Vnom except 3.3 V module 130-166%
- Remote Sense** • Compensates for lead drops of up to 500 mV on output
- Remote ON/OFF** • A logic '0' on the ROF connection electronically disables the output (contact sales for full set of application notes)

### General

- Earth Leakage Current** • In accordance with EN60950 (1.5 mA max)
- Redundancy & Current Sharing** • Up to 3 off modules can be connected in parallel modules sharing within 10% Total output power derates by 10%

### Environmental

- Operating Temperature** • -20 °C to +70 °C, with baseplate maintained below +83 °C utilizing system cooling, -40 °C option available add suffix 'L' to model number
- Storage Temperature** • -40 °C to +85 °C
- Temperature Coefficient** • 0.05%/°C
- Relative Humidity** • 20-95% non-condensing, units can be conformally coated for high humidity environments add suffix 'E' to model number
- Cooling** • Conduction via 4 mm thick aluminum baseplate
- Shock & Vibration** • 10-500 Hz, 2 G 10 min/1 cycle, period for 60 mins on each axis

### EMC & Safety

- EMC Emissions** • EN55022 Level B conducted
- EMC Immunity** • EN61000-4-4 level 3  
EN61000-4-5 level 3
- Safety Approvals** • EN60950
- CE Mark Directives** • CE Marked to LVD

\* Preliminary datasheet - see website for current specs

# OUTPUT VOLTAGE & CURRENT RATINGS

**BCC**

Output Power	Output Voltage	Output Current	Output Load Regulation	Model Number
165 W	3.3 V	50.0 A	1.5%	BCC200PS03
200 W	5.0 V	40.0 A	1.5%	<b>BCC200PS05</b>
210 W	7.5 V	28.0 A	1.5%	BCC200PS07
240 W	12.0 V	20.0 A	1.5%	<b>BCC200PS12</b>
264 W	3.3 V	80.0 A	1.5%	BCC400PS03
400 W	5.0 V	80.0 A	1.5%	<b>BCC400PS05</b>
405 W	7.5 V	54.0 A	1.5%	BCC400PS07
408 W	12.0 V	34.0 A	1.0%	<b>BCC400PS12</b>
405 W	15.0 V	27.0 A	1.0%	<b>BCC400PS15</b>
396 W	18.0 V	22.0 A	1.0%	BCC400PS18
408 W	24.0 V	17.0 A	1.0%	<b>BCC400PS24</b>
406 W	28.0 V	14.5 A	1.0%	BCC400PS28

## Notes

1. For -40 °C operating temperature, add suffix 'L' to model number.
2. For conformally coated option, add suffix 'E' to model number.
3. Part numbers in bold are standard stock models, all others are build to order.

## Mechanical Details

A = 4mm Mounting Holes

Overall cover width 102.0mm  
Overall baseplate width 126.0 mm

Overall Length 234.0 mm

**Input:**  
AMP Mat'n'lok 3 way.  
Mating housing AMP 350766-1.  
Socket crimp AMP 926893-1.  
Pin 1: Live  
Pin 2: Earth  
Pin 3: Neutral

**Output:**  
Power output +ve and -ve by M6 studs.  
Use appropriate ring terminals and wire for the load current.  
Signal connections on two 0.1" headers (PL3 & PL4).  
Mating Housing: Molex 22-01-2065.  
Mating Crimp: Molex 08-50-0032.

Pin	Function
1	Current Balance
2	Voltage Balance
3	Trim
4	-Remote Sense
5	+Remote Sense
6	Remote on/off

Pin	Function
1	Current Balance
2	Voltage Balance
3	Trim
4	-Remote Sense
5	+Remote Sense
6	Temp Warning

**Accessories**

1. For Input and Output Connector Kit - order part 'BCC connector kit'.
2. For Thermal Pad, order part 'BCC Therm'.

## Application Notes

Current and Voltage balance pins are used to connect units in parallel - see drawing.  
Remote on/off: Output is on with pin left floating, pull pin down to -Output to turn output off.

Temp Warning: When baseplate is in normal temperature range, output is 5 V typical; goes low, (0.5 V @ 5 mA), when baseplate exceeds safe level.

Remote sense pins are used to compensate for lead drops. For up to 0.5 V max. When not used, move switch SW1 to local positions. See below for switch positions.

The BCC series is approximately 80% efficient so for 400 W load consumption, the cooling system used will have to be able to absorb 100 W while maintaining the baseplate to a maximum of +83 °C.

### Remote Sense Switchers

	Remote	Local
SW1 A (1)	ON	OFF
SW1 B (2)	ON	OFF
SW1 C (3)	OFF	ON
SW1 D (4)	OFF	ON

Contact sales office for a full set of Application Notes.

*\* Preliminary datasheet - see website for current specs*

### Examples of parallel operation

