

BCC Series



- Baseplate-cooled
- Wide Operating Temperature Range
- ETSI, EMC and Environmental Compliant
- Parallel Operation
- Remote On/Off
- Low Temperature Option
- 3 Year Warranty

Specification

Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47-63 Hz
Input Current	• 3 A max at 90 VAC (BCC200) • 6 A max at 90 VAC (BCC400)
Inrush Current	• 60 A at 264 VAC +25 °C cold start
Power Factor	• >0.9
Earth Leakage Current	• <1.5 mA at 230 VAC
Input Protection	• Internal T10 A/250 V fuse

Output

Output Power	• See table
Output Voltage	• See table
Output Voltage Trim	• 60% to 110% Vnom
Initial Set Accuracy	• ±1% nominal
Minimum Load	• No minimum load
Hold Up Time	• 10 ms min
Line Regulation	• ±0.5%
Load Regulation	• See table
Ripple & Noise	• <1% pk-pk, 20 MHz bandwidth
Overvoltage Protection	• 105-140% Vnom (3.3 V version 130-166%)
Overtemperature Protection	• Shuts down at +115 °C baseplate temperature, recycle mains to reset
Overload Protection	• 102-140% constant current limiting with auto recovery
Temperature Coefficient	• 0.05%/°C
Remote Sense	• Compensates for lead drops of up to 500 mV
Remote On/Off	• A logic '0' on the Remote On/Off connection electronically disables the output
Current Share	• Up to 3 power supplies can be connected in parallel sharing within 10%, total output power derates by 10%

General

Efficiency	• 80% typical
Isolation	• 3000 VAC Input to Output • 1500 VAC Input to Ground • 500 VAC Output to Ground
Switching Frequency	• PWM 360 kHz typ, PFC 90 kHz typ
MTBF	• 160 kHrs to MIL-HDBK-217F at 25 °C, GB

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
Cooling	• Conduction via 6mm baseplate
Operating Humidity	• 20-95% RH, non-condensing. Units can be conformally coated for high humidity environments - add suffix '-E'
Storage Temperature	• -40 °C to +85 °C
Shock & Vibration	• 2 g 10 min/1 cycle, 10 Hz to 500 Hz, 60 mins each axis

EMC & Safety

Emissions	• EN55032, level B conducted & level A radiated
Harmonic Currents	• EN61000-3-2, EN61000-3-3
ESD Immunity	• EN61000-4-2, level 3 Perf Criteria A
Radiated Immunity	• EN61000-4-3, 3 V/m Perf Criteria A
EFT/Burst	• EN61000-4-4, level 3 Perf Criteria A
Surge	• EN61000-4-5, level 3 Perf Criteria A
Conducted Immunity	• EN61000-4-6, level 3 Perf Criteria A
Dips & Interruptions	• EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B
Safety Approvals	• UL60950-1: CSA22.2 No. 60950-1-03, EN60950-1, CE & UKCA meets all applicable directives & legislation.

