

CPIEC SERIES

CPIEC - PBB20C CHASSIS & DIN MOUNTING

FEATURES

- 50W - 600W PBB20C Series
- Chassis Plate Mounting
- With DIN Rail Mounting
- Aluminium L Bracket
- IEC Input Power Connector



SPECIFICATIONS

INPUT

| | |
|----------------|---|
| Input voltage | 85~264Vac |
| Frequency | 47-63Hz |
| Inrush current | PBB20C- J, L (50W-75W) 30A typical PBB20C-M, R, T, X (100W-600W) 40A typical |

OUTPUT

| | |
|--------------------------|--|
| Output voltage | See Selection table. |
| Voltage adjustment range | See selection table |
| Output power | 50W to 600W See selection table |
| Output current | See Selection table. |
| Minimum Load | Unit will operate with zero load. |
| Ripple | 3.3-5V output 80mV pk-pk 7.5-48V output 120-150mV pk-pk |
| Line regulation | Typically 0.4% |
| Load regulation | Typically 0.8% |
| Temperature drift | 1% over 0°C to 50°C |
| Remote sense | Provided on PBB20C 300W & 600W models |
| Remote inhibit | Provided on PBB20C 300W & 600W models |
| Rise time | Model dependent 600ms max |
| Holdup time | 20ms typical |
| Efficiency | Model dependent 70% – 80%. |

PROTECTION

| | |
|--|--|
| Over current protection | Works at approximately 105% of rated current with auto recover |
| Over voltage protection | Model dependant 115% - 140% of Vout typical |
| Thermal protection (300W - 1500W) | Unit shuts down when temperature exceeds de-rating curve, when FAN stops or when air flow is interrupted |
| DC OK/ FAN alarm (300W-1500W) Indicators | Open Collector "Low DC OK" 0.5V "High DC not OK" 5V LED for V output |
| Isolation | nput - output: 3000Vac Input - case: 2000Vac Output - case: 500Vac |

ENVIRONMENTAL

| | |
|-----------------------|--|
| Operating temperature | (10-150W) convection -10°C to 71°C Derate 40°C to 71°C at 2.5%/C (300-1500W) -20°C to 71°C Derate 50°C to 71°C at 2.5%/C. |
| Cooling | 50W-150W models convection cooled 300W-1500W models internal fan cooling |
| Humidity | 20%-90% non-condensing. |
| Vibration | 10Hz-55Hz at 2G |
| Shock | 20G 11ms X, Y, Z axis |

STANDARDS

| | |
|-----------------|--|
| Safety | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178, Complies with DEN-AN. |
| C-Tick | AS/NZS CISPR11 Group 1 Class A. |
| EMC compliances | EN61204-3, EN61000-6-2 EN61000-4-2,-3,-4,-5,-6,-8,-11 |
| EMI compliances | Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B |
| CE marking | Complies with LVD and EMC Directives |

MECHANICAL

| | |
|---------------------|---|
| Input connector | IEC AC Power Socket (with 2 meter IEC power cable supplied) |
| Output connector | Screw Termination |
| Chassis Plate | Aluminium L bracket |
| Dimensions | PBB20C, 50W-150W: 275 x 110 x 50mm PBB20C, 300W-600W: 295 x 130 x 60mm |
| DIN Mounting Option | Option "D" DIN Rail mounting. Standard TS35 with "H" horizontal mounting or "V" vertical mounting |

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SELECTION TABLE

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3J-CPIEC | 3.3V | 2.85V-3.6V | 10A | 50W |
| PBB20C-5J-CPIEC | 5V | 4V-5.5V | 10A | 50W |
| PBB20C-9J-CPIEC | 9V | 7.5V-10V | 5.6A | 50W |
| PBB20C-12J-CPIEC | 12V | 10V-13.2V | 4.3A | 50W |
| PBB20C-15J-CPIEC | 15V | 13.2V-18V | 3.5A | 50W |
| PBB20C-24J-CPIEC | 24V | 19.2V-27V | 2.2A | 50W |
| PBB20C-36J-CPIEC | 36V | 28.8V - 39V | 1.4A | 50W |
| PBB20C-48J-CPIEC | 48V | 39V-53V | 1.1A | 50W |

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3L-CPIEC | 3.3V | 2.85V-3.6V | 15A | 75W |
| PBB20C-5L-CPIEC | 5V | 4V-5.5V | 15A | 75W |
| PBB20C-9L-CPIEC | 9V | 7.5V-10V | 8.4A | 75W |
| PBB20C-12L-CPIEC | 12V | 10V-13.2V | 6.3A | 75W |
| PBB20C-15L-CPIEC | 15V | 13.2V-18V | 5A | 75W |
| PBB20C-24L-CPIEC | 24V | 19.2V - 27V | 3.2A | 75W |
| PBB20C-36L-CPIEC | 36V | 28.8V - 39V | 2.1A | 75W |
| PBB20C-48L-CPIEC | 48V | 39V - 53V | 1.6A | 75W |

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3M-CPIEC | 3.3V | 2.85V - 3.6V | 20A | 100W |
| PBB20C-5M-CPIEC | 5V | 4V - 5.5V | 20A | 100W |
| PBB20C-9M-CPIEC | 9V | 7.5V-10V | 10.5A | 100W |
| PBB20C-12M-CPIEC | 12V | 10V-13.2V | 8.5A | 100W |
| PBB20C-15M-CPIEC | 15V | 13.2V-18V | 7A | 100W |
| PBB20C-24M-CPIEC | 24V | 19.2V - 27V | 4.5A | 100W |
| PBB20C-36M-CPIEC | 36V | 28.8V - 39V | 2.8A | 100W |
| PBB20C-48M-CPIEC | 48V | 39V - 53V | 2.1A | 100W |

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3R-CPIEC | 3.3V | 2.85V - 3.6V | 30A | 150W |
| PBB20C-5R-CPIEC | 5V | 4V-5.5V | 30A | 150W |
| PBB20C-9R-CPIEC | 9V | 7.5V - 10V | 16.7A | 150W |
| PBB20C-12R-CPIEC | 12V | 10V - 13.2V | 13A | 150W |
| PBB20C-15R-CPIEC | 15V | 13.2V-18V | 10A | 150W |
| PBB20C-24R-CPIEC | 24V | 19.2V - 27V | 6.5A | 150W |
| PBB20C-36R-CPIEC | 36V | 28.8V-39V | 4.3A | 150W |
| PBB20C-48R-CPIEC | 48V | 39V - 53V | 3.3A | 150W |

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3T-CPIEC | 3.3V | 2.64V - 3.96V | 60A | 300W |
| PBB20C-5T-CPIEC | 5V | 3.96V - 6V | 60A | 300W |
| PBB20C-7.5T-CPIEC | 7.5V | 5.25V - 8.25V | 40A | 300W |
| PBB20C-12T-CPIEC | 12V | 8.25V - 13.2V | 27A | 300W |
| PBB20C-15T-CPIEC | 15V | 10.5V - 16.5V | 22A | 300W |
| PBB20C-24T-CPIEC | 24V | 16.5V - 26.4V | 14A | 300W |
| PBB20C-36T-CPIEC | 36V | 25.2V - 39.6V | 9A | 300W |
| PBB20C-48T-CPIEC | 48V | 38.4V - 56V | 7A | 300W |

| MODEL NUMBER | OUTPUT VOLTAGE | VOLTAGE ADJUST | OUTPUT CURRENT | POWER |
|-------------------|----------------|----------------|----------------|-------|
| PBB20C-3.3X-CPIEC | 3.3V | 2.64V - 3.96V | 120A | 600W |
| PBB20C-5X-CPIEC | 5V | 3.96V - 6V | 120A | 600W |
| PBB20C-7.5X-CPIEC | 7.5V | 5.25V - 8.25V | 80A | 600W |
| PBB20C-12X-CPIEC | 12V | 8.25V - 13.2V | 53A | 600W |
| PBB20C-15X-CPIEC | 15V | 10.5V - 16.5V | 43A | 600W |
| PBB20C-24X-CPIEC | 24V | 16.5V - 26.4V | 27A | 600W |
| PBB20C-36X-CPIEC | 36V | 25.2V - 39.6V | 18A | 600W |
| PBB20C-48X-CPIEC | 48V | 38.4V - 56V | 13A | 600W |

TECHNICAL ILLUSTRATION

