

# PBB11C Series

100-240 WATTS - AC/DC SINGLE OUTPUT

## FEATURES

- High power & peak power
- Rugged PCB type (CEM)
- Harmonic attenuator
- Universal input (85-264Vac)
- Remote on/off (Option)
- Peak loading 10 seconds

## SPECIFICATIONS

| INPUT          |  |
|----------------|--|
| Voltage range  | 85-264Vac or 120-370Vdc  |
| Frequency      | 50/60Hz (47-63Hz) or DC.   |
| Inrush current | 30A typical  |
| Efficiency     | 84%-85%  |
| Isolation      | In/Out 3kVac, 1min / R>50MΩ @ 500Vdc<br>In/Gnd 2kVac, 1min / R>50MΩ @ 500Vdc<br>Out/Gnd 500Vac, 1min / R>50MΩ @ 500Vdc |

| OUTPUT                  |   |
|-------------------------|---|
| Power                   | See table.  |
| Voltage and current     | See table.  |
| DC adjustment range     | See table.  |
| Ripple and noise        | 24V and 36V: 150mVp-p max.<br>48V: 250mVp-p max.    |
| Line regulation         | 48mV max.   |
| Load regulation         | 24V: 76mV max.<br>36V: 90mV max.<br>48V: 150mV max. |
| Over voltage protection | 115% - 140% of rating.                              |
| Over current protection | Over 101% of peak current.                          |
| Startup time            | 500ms max.  |
| Holdup time             | 20ms typical  |
| Peak load               | 10 sec, 35% duty cycle                              |

| ENVIRONMENT           |  |
|-----------------------|--|
| Operating temperature | -10°C to 70°C (Refer to derating curve, consult Powerbox sales). |
| Humidity              | 20 – 90% RH Non-Condensing.                                      |
| Vibration             | 10Hz-55Hz 19.6m/s <sup>2</sup> (2G) 3 mins x, y and z axes.      |
| Impact                | 196.1m/s <sup>2</sup> (20G), once along x, y and z axes.         |



| STANDARDS        |  |
|------------------|--|
| Safety standards | EN60950-1, EN50178, UL60950-1 and C-UL(CSA60950-1) Complies with DEN-AN and IEC60950-1(AC input only). |
| C-Tick           | AS/NZS CISPR11 Group 1 Class A.  |
| EMC standards    | EN61204-3, EN61000-6-2, EN61000-3-2, EN61000-4-2,-3,-4,-5,-6,-8,-11                                    |
| EMI standards    | FCC-B, CISPR22-B, EN55022-B, VCCI-B  |
| CE Marking       | Complies with LVD and EMC Directives   |
| Mechanical       |  |
| Case size        | PBB11C-M 75 x 35 x 222mm<br>PBB11C-R 85 x 40 x 222mm<br>PBB11C-E 95 x 45 x 222mm                       |
| Cable harness    | Input/output harness supplied with PSU   |

## SELECTION TABLE

| MODEL NUMBER | OUTPUT VOLTAGE          | OUTPUT CURRENT    | RIPPLE & NOISE | MAX POWER |
|--------------|-------------------------|-------------------|----------------|-----------|
| PBB11C-24M   | 21.4-26.4V (Adjustable) | 4.2A (7A Peak)    | 150mVp-p       | 100W      |
| PBB11C-36M   | 26.4-39.6V (Adjustable) | 2.8A (4.7A Peak)  | 150mVp-p       | 100W      |
| PBB11C-48M   | 39.6-52.8V (Adjustable) | 2.1A (3.5A Peak)  | 250mVp-p       | 100W      |
| PBB11C-24R   | 21.4-26.4V (Adjustable) | 6.3A (12A Peak)   | 150mVp-p       | 150W      |
| PBB11C-36R   | 26.4-39.6V (Adjustable) | 4.2A (8A Peak)    | 150mVp-p       | 150W      |
| PBB11C-48R   | 39.6-52.8V (Adjustable) | 3.2A (6A Peak)    | 250mVp-p       | 150W      |
| PBB11C-24E   | 21.4-26.4V (Adjustable) | 10A (20A Peak)    | 150mVp-p       | 240W      |
| PBB11C-36E   | 26.4-39.6V (Adjustable) | 6.7A (13.4A Peak) | 150mVp-p       | 240W      |
| PBB11C-48E   | 39.6-52.8V (Adjustable) | 5A (10A Peak)     | 250mVp-p       | 240W      |

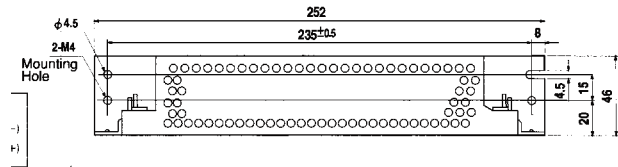
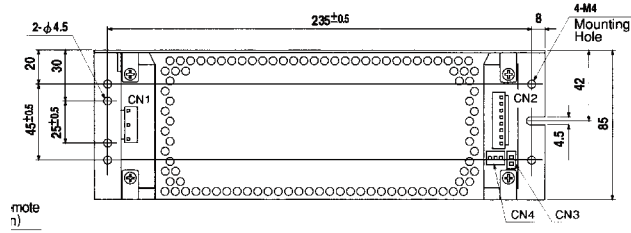
OPEN FRAME & ENCLOSED

# PBB11C Series

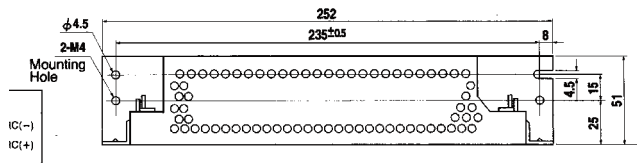
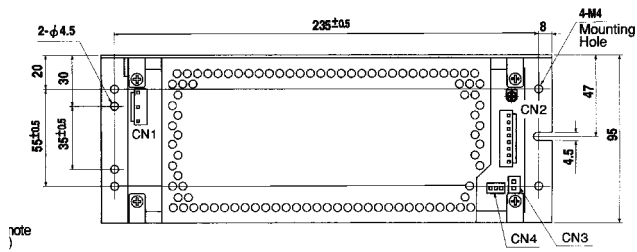
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## TECHNICAL ILLUSTRATIONS PBB11C-M



## PBB11C-R



## PBB11C-E

