

PBB10C Series

600-1000 WATTS - AC/DC SINGLE OUTPUT

FEATURES

- High power & peak power
- 10 seconds peak current, 35% duty cycle.
- Natural convection cooling
- Increased power with forced air cooling
- Parallel, master-slave, and N+1 redundant operation
- Harmonic attenuator IEC 61000-3-2
- Universal input (85-264Vac)



SPECIFICATIONS

| INPUT | |
|-------------------------|--|
| Voltage | 85-264Vac or 120-350Vdc |
| Frequency | 50/60Hz (47-63Hz) or DC. |
| Inrush current | 40A typical. |
| Efficiency | 84%-89% typical |
| Isolation | In/Out 3kVac, 1min / R>50MΩμ @ 500Vdc In/Gnd 2kVac, 1min / R>50MΩμ @ 500Vdc Out/Gnd 500Vac, 1min / R>750MΩμ @ 500Vdc |
| OUTPUT | |
| Voltage | See table |
| Voltage adjustment | ±10% of rated voltage. |
| Output current | See table. |
| Ripple & noise | 150mVp-p – 250mVp-p max. |
| Line regulation | 96mV – 192mV max. |
| Load regulation | 150mV – 300mV max. |
| Over voltage protection | Various, between 130% - 170% of rated voltage |
| Over current protection | Over 101% of peak current |
| Startup time | 500ms max. |
| Holdup time | 20ms typical |
| Peak load | 10 sec, 35% duty cycle |

| ENVIRONMENTAL | |
|-----------------------|---|
| 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 ² (2G) 3 mins x, y and z axes |
| Impact | 196.1m/s ² (20G), once along x, y and z axes |
| STANDARDS | |
| Safety standards | EN60950-1, EN50178, UL60950-1 and C-UL 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 |

OPEN FRAME & ENCLOSED

PBB10C Series

600-1000 WATTS - AC/DC SINGLE OUTPUT

OPEN FRAME & ENCLOSED

SELECTION TABLE

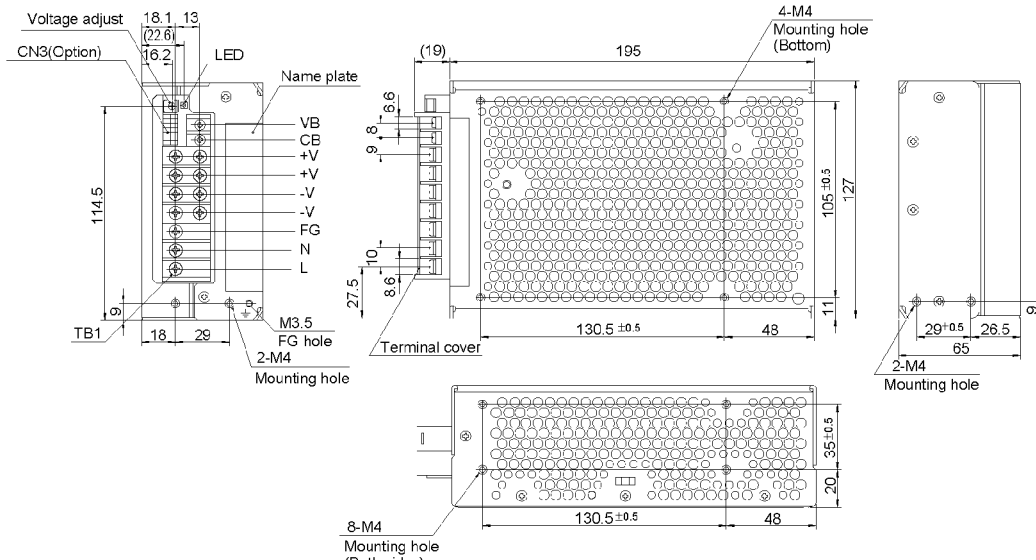
| MODEL NUMBER | | OUTPUT VOLTAGE | OUTPUT CURRENT | PEAK CURRENT | RIPPLE & NOISE | POWER |
|--------------|-------------------|----------------|----------------|--------------|----------------|-------|
| PBB10C-24X | 110Vac/Convection | 24V | 14A | 25A | 150mVp-p | 600W |
| | 110Vac/Forced Air | 24V | 21A | 25A | 150mVp-p | 600W |
| | 240Vac/Convection | 24V | 15A | 31A | 150mVp-p | 600W |
| | 240Vac/Forced Air | 24V | 25A | 31A | 150mVp-p | 600W |
| PBB10C-30X | 110Vac/Convection | 30V | 11A | 33.5A | 190mVp-p | 600W |
| | 110Vac/Forced Air | 30V | 16.5A | 33.5A | 190mVp-p | 600W |
| | 240Vac/Convection | 30V | 12A | 50A | 190mVp-p | 600W |
| | 240Vac/Forced Air | 30V | 20A | 50A | 190mVp-p | 600W |
| PBB10C-36X | 110Vac/Convection | 36V | 9A | 16.5A | 230mVp-p | 600W |
| | 110Vac/Forced Air | 36V | 14A | 16.5A | 230mVp-p | 600W |
| | 240Vac/Convection | 36V | 10A | 20.5A | 230mVp-p | 600W |
| | 240Vac/Forced Air | 36V | 16.5A | 20.5A | 230mVp-p | 600W |
| PBB10C-48X | 110Vac/Convection | 48V | 6.5A | 12.5A | 250mVp-p | 600W |
| | 110Vac/Forced Air | 48V | 10.5A | 12.5A | 250mVp-p | 600W |
| | 240Vac/Convection | 48V | 7A | 15.5A | 250mVp-p | 600W |
| | 240Vac/Forced Air | 48V | 12.5A | 15.5A | 250mVp-p | 600W |
| PBB10C-24XA | 110Vac/Convection | 24V | 17A | 42A | 150mVp-p | 750W |
| | 110Vac/Forced Air | 24V | 25A | 42A | 150mVp-p | 750W |
| | 240Vac/Convection | 24V | 19A | 63A | 150mVp-p | 750W |
| | 240Vac/Forced Air | 24V | 31.5A | 63A | 150mVp-p | 750W |
| PBB10C-30XA | 110Vac/Convection | 30V | 13.5A | 33.5A | 190mVp-p | 750W |
| | 110Vac/Forced Air | 30V | 20A | 33.5A | 190mVp-p | 750W |
| | 240Vac/Convection | 30V | 15A | 50A | 190mVp-p | 750W |
| | 240Vac/Forced Air | 30V | 24.5A | 50A | 190mVp-p | 750W |
| PBB10C-36XA | 110Vac/Convection | 36V | 11A | 28A | 230mVp-p | 750W |
| | 110Vac/Forced Air | 36V | 16.5A | 28A | 230mVp-p | 750W |
| | 240Vac/Convection | 36V | 12.5A | 42A | 230mVp-p | 750W |
| | 240Vac/Forced Air | 36V | 20.5A | 42A | 230mVp-p | 750W |
| PBB10C-48XA | 110Vac/Convection | 48V | 8A | 21A | 250mVp-p | 750W |
| | 110Vac/Forced Air | 48V | 12.5A | 21A | 250mVp-p | 750W |
| | 240Vac/Convection | 48V | 9A | 31.5A | 250mVp-p | 750W |
| | 240Vac/Forced Air | 48V | 15.5A | 31.5A | 250mVp-p | 750W |
| PBB10C-24W | 110Vac/Convection | 24V | 21A | 63A | 150mVp-p | 1000W |
| | 110Vac/Forced Air | 24V | 33A | 63A | 150mVp-p | 1000W |
| | 240Vac/Convection | 24V | 25A | 83A | 150mVp-p | 1000W |
| | 240Vac/Forced Air | 24V | 42A | 83A | 150mVp-p | 1000W |
| PBB10C-30W | 110Vac/Convection | 30V | 16.5A | 50A | 190mVp-p | 1000W |
| | 110Vac/Forced Air | 30V | 26A | 50A | 190mVp-p | 1000W |
| | 240Vac/Convection | 30V | 20A | 66A | 190mVp-p | 1000W |
| | 240Vac/Forced Air | 30V | 33.5A | 66A | 190mVp-p | 1000W |
| PBB10C-36W | 110Vac/Convection | 36V | 14A | 42A | 230mVp-p | 1000W |
| | 110Vac/Forced Air | 36V | 22A | 42A | 230mVp-p | 1000W |
| | 240Vac/Convection | 36V | 16.5A | 55A | 230mVp-p | 1000W |
| | 240Vac/Forced Air | 36V | 28A | 55A | 230mVp-p | 1000W |
| PBB10C-48W | 110Vac/Convection | 48V | 10.5A | 31.5A | 250mVp-p | 1000W |
| | 110Vac/Forced Air | 48V | 16.5A | 31.5A | 250mVp-p | 1000W |
| | 240Vac/Convection | 48V | 11.5A | 41.5A | 250mVp-p | 1000W |
| | 240Vac/Forced Air | 48V | 21A | 41.5A | 250mVp-p | 1000W |

PBB10C Series

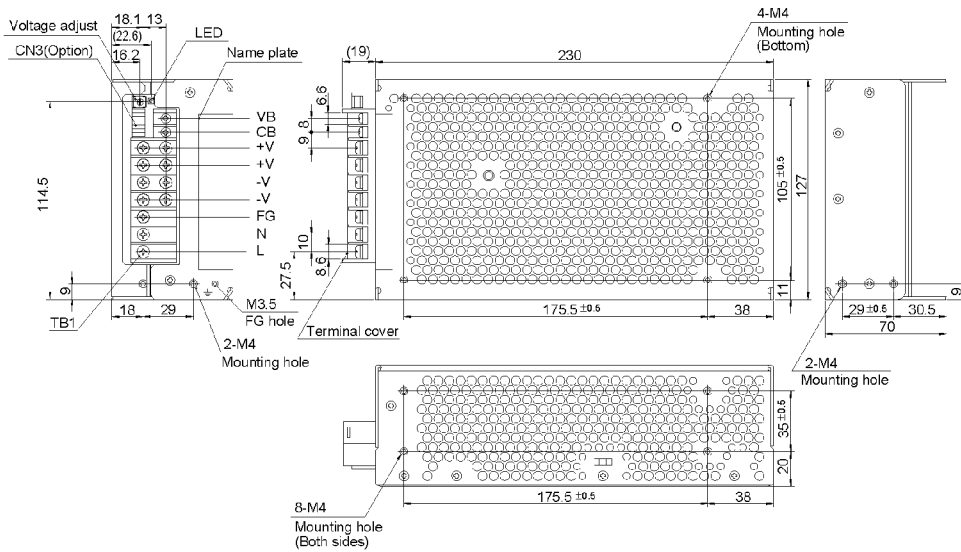
600-1000 WATTS - AC/DC SINGLE OUTPUT

OPEN FRAME & ENCLOSED

TECHNICAL ILLUSTRATIONS PBB10C-600W



PBB10C-750W



PBB10C-1000W

