

# PBBO Series

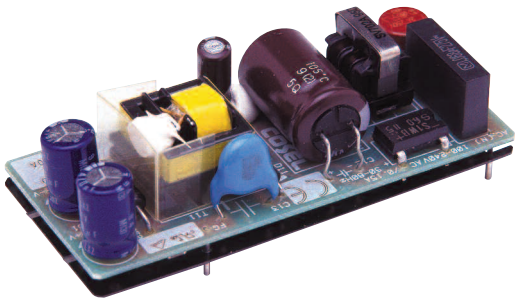
5-10 WATTS - AC/DC SINGLE OUTPUT

## FEATURES

- Small foot print
- Low height
- High efficiency
- High power density
- High MTBF
- Cost effective
- Built-in inrush current and overcurrent protection

## SPECIFICATIONS

| INPUT                  |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| Nominal voltage        | 85-264VAC / 110-370VDC                                                                            |
| Frequency              | 47-63Hz                                                                                           |
| Input current          | 0.15A to 0.3A                                                                                     |
| Leakage current        | 0.5A max at nominal load and input voltage.                                                       |
| Inrush current         | 15A Typ (100VAC), 30A Typ (200VAC)                                                                |
| Isolation              | I/P to O/P 3,000VAC<br>I/P to FG 2,000VAC<br>O/P to FG 500VAC                                     |
| OUTPUT                 |                                                                                                   |
| Voltage                | See table.                                                                                        |
| Line regulation        | ±0.4% - ±0.6%.                                                                                    |
| Load regulation        | ±0.6% - ±1.2%.                                                                                    |
| Voltage adjustment     | No.                                                                                               |
| Current adjustment     | No.                                                                                               |
| Ripple and noise       | 1% - 2% max p-p. (0 to +55°C).                                                                    |
| Overcurrent protection | Works over 125% of rating and recovers automatically.                                             |
| Overvoltage protection | Works over 115% of rating (By zener diode clamping)                                               |
| ENVIRONMENTAL          |                                                                                                   |
| Operating temperature  | -10 to +71°C convection, derate from 55°C                                                         |
| Storage temperature    | -20 to +75°C.                                                                                     |
| Operating humidity     | 20-90%, RH non condensing.                                                                        |
| Storage humidity       | 20-90%, RH non condensing.                                                                        |
| Operating altitude     | 3,000m (10,000feet) max.                                                                          |
| Storage altitude       | 9,000m (30,000feet) max.                                                                          |
| Cooling                | Convection.                                                                                       |
| Vibration              | 19.6m/s <sup>2</sup> 10-55Hz, 3 minutes period, 60 mins each along X,Y and Z axis (Non operating) |
| Impact                 | 196.1m/s <sup>2</sup> 11ms, once each X,Y and Z axis (Non operating)                              |
| Efficiency             | 65% - 81%                                                                                         |
| Switching frequency    | 60kHz to 200kHz                                                                                   |
| MTBF                   | 1,760,000 hours (PBBO-C). 1,610,000 hours (PBBO-D)                                                |
| Weight                 | 30g (PBBO-C), 40g (PBBO-D)                                                                        |



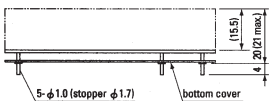
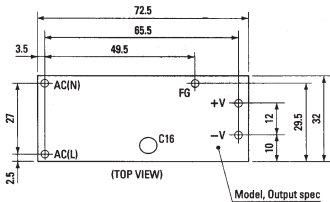
| STANDARDS        |                                                                   |
|------------------|-------------------------------------------------------------------|
| Safety standards | UL1950. C-UL, EN60950, VDE0160 Complies with DEN-AN and IEC60950. |
| C tick           | AS/NZS CISPR11 Group 1 Class A.                                   |
| EMI standards    | Complies with FCC-B and VCCI-A.                                   |

## SELECTION TABLE

| MODEL NUMBER | OUTPUT |       | POWER |
|--------------|--------|-------|-------|
| PBBO-3C      | 3.3V   | 1A    | 5W    |
| PBBO-5C      | 5V     | 1A    | 5W    |
| PBBO-12C     | 12V    | 0.45A | 5W    |
| PBBO-15C     | 15V    | 0.33A | 5W    |
| PBBO-24C     | 24V    | 0.22A | 5W    |
| PBBO-3D      | 3.3V   | 2A    | 10W   |
| PBBO-5D      | 5V     | 2A    | 10W   |
| PBBO-12D     | 12V    | 0.9A  | 10W   |
| PBBO-15D     | 15V    | 0.70A | 10W   |
| PBBO-24D     | 24V    | 0.45A | 10W   |

## TECHNICAL ILLUSTRATIONS

### PBBO-C



### PBBO-D

