

# PBKAM10 Series

10 WATTS - AC/DC POWER MODULE SINGLE & MULTIPLE OUTPUT

## FEATURES

- AC/DC power module
- Universal input 85 ~ 265 VAC
- High efficiency up to 79%
- Short circuit protection
- Internal input filter
- 71°C operation temperature



## SPECIFICATIONS

INPUT	
Input voltage	85-265VAC
Input voltage range	AC in 85 - 265VAC DC in 120 - 375
Rated input current	Vi: 115 VAC, Io nom 180-350mA
Line frequency	Vi nom, Io nom 47-63Hz
Inrush current	Vi: 115/230 VAC, Io nom 10/18A
Leakage current	Input-Output 0.25mA
OUTPUT	
Voltage range	See Table
Minimum load	Vi nom, Single Output Models 0% Vi nom, Multiple Output Models 20%
Line regulation	Lo nom, Vi min to Vi max $\pm 1\%$
Load regulation	Vi nom, single Output Models $\pm 2\%$ Vi nom, Multiple Output Models $\pm 2\%$
Hold up time	Vi: 115/230 VAC, Io nom 15/30 ms
Ripple and noise	Vi nom, Io nom, BW = 20MHz 3.3V & 5V 100mV 12V, 15V, 24V and Dual 150mV
Efficiency	Model Dependant up to 78%
ENVIRONMENTAL	
Storage temperature	Non operational -40 to +100°C
Relative humidity	Vi nom, Io nom 20-95% RH
Isolation voltage	Input-Output at 3000/4242 VAC/VDC
Ambient temperature	Operating at Vi nom, Io nom -40 to +71°C
Derating	Vi nom, from +51°C to +71°C 2% / °C

Temperature coefficient	$\pm 0.03\% / ^\circ\text{C}$
Cooling	Free air convection
Dimension	L76.2 x W50.8 x H22.8
Switching frequency	100KHz
MTBF	Bellcore Issue 6 at 40°C, GB
Weight	160g

STANDARDS	
Safety standards	UL/cUL UL 60950-1 Recognised TUV EN 60950-1, CB Scheme
C-Tick	AS/NZ CISPR11 Group 1, Class A
EMC standards	CE EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024

## SELECTION TABLE

MODEL NUMBER	OUTPUT		POWER
<b>SINGLE OUTPUT</b>			
PBKAM1003	+ 3.3 V	3000 mA	10W
PBKAM1005	+ 5V	2000 mA	10W
PBKAM1012	+12V	840 mA	10W
PBKAM1015	+15V	670 mA	10W
PBKAM1024	+24V	420 mA	10W
<b>MULTIPLE OUTPUT</b>			
PBKAM1012D	$\pm 12\text{V}$	$\pm 420\text{mA}$	10W
PBKAM1015D	$\pm 15\text{V}$	$\pm 335\text{mA}$	10W
PBKAM10503D	+5 / +3.3V	+0.8A/+2A	10W

## MECHANISM & PIN CONFIGURATION

