

KAM30 SERIES

BM ENERGIE - AC-DC POWER MODULE

20 ~ 30W *UL / cUL / TUV / CE*



KAM30 12 D

WATTAGE

03 : 3.3V OUT
05 : 5V OUT
12 : 12V OUT
15 : 15V OUT
24 : 24V OUT
503 : 5V & 3.3V OUT
512 : 5V & 12V OUT

* : SINGLE OUTPUT
D : DUAL OUTPUT

* = BLANK

MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (TYP.)	EFF. (MIN.)	CASE
Single Output Models							
KAM3003	85~265 VAC	25 WATTS	+3.3 VDC	7500 mA	76%	74%	M2
KAM3005	85~265 VAC	30 WATTS	+ 5 VDC	6000 mA	79%	77%	M2
KAM3012	85~265 VAC	30 WATTS	+ 12 VDC	2500 mA	80%	78%	M2
KAM3015	85~265 VAC	30 WATTS	+ 15 VDC	2000 mA	84%	82%	M2
KAM3024	85~265 VAC	30 WATTS	+ 24 VDC	1250 mA	84%	82%	M2
Dual Output Models							
KAM3012D	85~265 VAC	30 WATTS	± 12 VDC	± 1250 mA	83%	81%	M2
KAM3015D	85~265 VAC	30 WATTS	± 15 VDC	± 1000 mA	84%	82%	M2
KAM30503D	85~265 VAC	20 WATTS	+5/+3.3 VDC	+3A/+1.5A	71%	68%	M2
KAM30512D	85~265 VAC	30 WATTS	+5/+12 VDC	+3A/+1.25A	81%	79%	M2

FEATURES

- * AC/DC POWER MODULE
- * UNIVERSAL INPUT 85 ~ 265 VAC
- * HIGH EFFICIENCY UP TO 84%
- * SHORT CIRCUIT PROTECTION
- * INTERNAL INPUT FILTER
- * 2 YEARS WARRANTY



CHINFA ELECTRONICS IND., CO. LTD.
ISO 9001 Certified

BM ENERGIE - Siège Courtaboeuf : 01.64.46.33.33
Agence Rhône-Alpes : 04.78.23.89.10 - www.bm-energie.com

SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

GENERAL SPECIFICATION

- * Switching frequency: 100KHz (typ.)
- * Isolation voltage: 3,000VAC (min.)
- * Isolation resistance: 100M Ω (min.)
- * Operating ambient temperature: -20 to +71°C
- * Storage temperature: -40 to +100°C
- * Relative humidity: 20% to 95%RH
- * M.T.B.F.: 205,000Hrs at @ GF40, according to MIL-HDBK-217F
- * Cooling: Free air convection
- * Transient recovery time: 500 μ S, 50% load step change
- * Temperature coefficient: $\pm 0.02\%$ / °C
- * Dimension: 89.2 x 63.8 x 32.3mm

INPUT SPECIFICATIONS

- * Input voltage range / frequency: 85 ~ 265VAC / 47 ~ 63Hz
- * Max. Input voltage: 265VAC
- * Inrush current: < 12A at 110VAC
< 20A at 230VAC

OUTPUT SPECIFICATIONS

- * Output voltage accuracy: $\pm 2\%$ at Vo_nom(max.)
- * Minimum load: None at Vo_nom for single output models
20% FL each output at Vo_nom for dual output models
- * Line regulation: $\pm 1\%$ at Vo_nom
- * Load regulation: $\pm 2\%$ (NL ~ FL) at Vo_nom for single output models
 $\pm 5\%$ (20% ~ FL) at Vo_nom for dual output models
[$\pm 2\%$ (20% ~ FL) at Vo_nom for +3.3V & +5V output models]
- * Ripple & noise: Vout x $\pm 1\%$ mV p-p (max.)
 ≤ 100 mV for 3.3V_out
- * Efficiency: Up to 84%, see model list
- * Derating: +51 to +71°C, 2%/°C
- * Case material: Non-conductive black plastic
- * External trim ADJ. Range: $\pm 10\%$ for 5V ~ 24V_out at 5% ~ 100% load
(for single output only)
 $\pm 5\%$ for 3.3V_out at 5% ~ 100% load
(see Fig. 1 & table 1 for trim connection)

CONTROL AND PROTECTION

- * Input fuse: T2A / 250VAC
- * Output short circuit: Current limited

APPROVALS AND STANDARD

- UL / cUL: UL1950
- TUV: IEC60950
- CE: EN55022 for EMI
EN50082-1 for EMS



