



Features:

- · AC/DC power module
- Universal input 85 to 265V AC
- High efficiency up to 79%
- Short circuit protection
- Internal input filter

Specifications:

All specifications typical at nominal line, full load, 25°C unless otherwise noticed

Characteristics	Conditions	Min.	Тур.	Max.	Unit
Switching frequency	Vi nominal, lo nominal	80	-	-	kHz
Isolation voltage	Input/output	3,000	-	-	V AC
Isolation resistance	Input/output, at 500V DC	100	-	-	ΜΩ
Ambient temperature	Operating at Vi naminal la naminal	-20	-	+71	°C
Case temperature	Operating at Vi nominal, lo nominal	-	-	+85	-
Derating	Vi nominal, lo nominal +51 to +71°C	-	-	2	%/°C
Storage temperature	Non-operational	-40	-	+100	°C
MTBF	According to MIL-HDBK-217F, GF40	-	2,65,000	-	Hrs
Relative humidity	Vi nominal, lo nominal	-	-	95	% RH
Dimension	(L) 58 x (W) 45 x (H) 18.5	-	-	-	mm
Cooling	Free air convection	-	-	-	-
Case material	Plastic	-	-	-	-

Input Specifications

Characteristics	Cond	Minimum	Maximum	Unit	
Rated input voltage	lo no	O.F.	240	V AC	
Input voltage range	lo nominal	AC in	85	265	V AC
Input voltage range	lo nominal	DC in	120	370	V DC
Line frequency	Vi nominal,	47	63	Hz	
Inrush current	lo nominal	Vi : 115V AC	-	10	۸
Inrush current	lo nominal	Vi : 230V AC	-	18	A

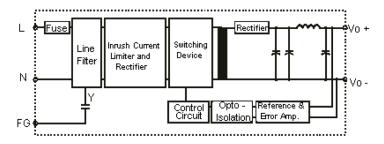




Output Specifications

Characteristics		Min.	Тур.	Max.	Unit		
Output voltage accuracy	Vi nominal, lo nominal		-	-	±2		
Minimum load	Vi nominal	single output models 0 -		-	-		
Minimum load	vi nominai	dual output models (each output)	20	-	-] %	
Line regulation	lo nominal, Vi minimum to Vi maximum		-	-	±1	70	
Vi nominal, le	Vi nominal, lo min.	nominal, lo min. single output models		-	±2		
Load regulation	to lo nominal	dual output models	-	-	±5		
Transient recovery time	Vi nominal, lo nominal = I ⇔ 0.5 lo nominal		-	300	-	μS	
Temperature coefficient	Vi nominal, lo nominal		-	-	±0.02	%/°C	
Ripple and noise	Vi nominal, lo nominal, BW = 20MHz		Vout	x ±1% p-p	Max.	mV	
Efficiency	Vi nominal, Io nominal, Po/Pi			Up to	79%		

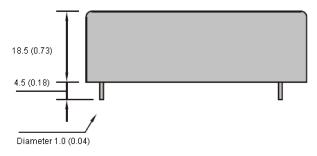
Block diagram for KAM07 series with single output



Control and Protection

Input fuse	T2A/250V ac internal		
Output short circuit	By current limited		

Mechanism and Pin Configuration



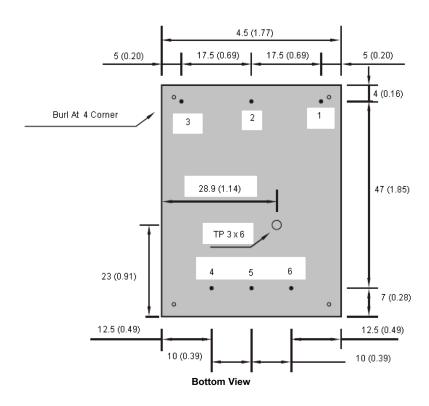
Dimensions: Millimetres (Inches)







Mechanism and Pin Configuration



Dimensions: Millimetres (Inches)

Physical Characteristics

Case size	58mm × 45mm × 18.5mm (2.28" × 1.77" × 0.73")
Case material	Plastic

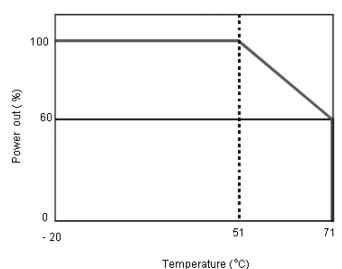
General Pin Assignment

PIN Number	1	2	3	4	5	6
Single	Line	Neutral	F.G.	Vo-	No Pin	Vo+





Derating



Туре	Input	Output	Output	Output	EFF	EFF
	Voltage	Wattage	Voltage	Current	(Typical)	(Minimum)
	(V AC)	(W)	(V DC)	(mA)	(%)	(%)
Single Output	85 to 265	7.5	+12	630	78	75

Part Number Table

Description	Part Number		
PSU, Encapsulated, 7W, 12V	KAM0712		

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