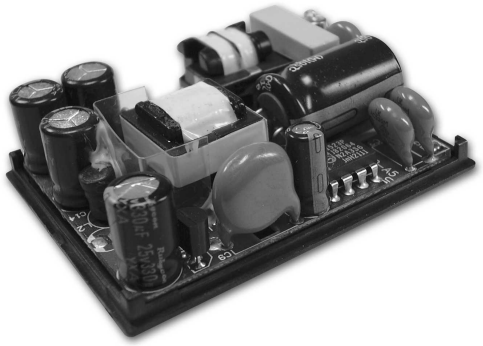
KAD07 SERIES



OPEN FRAME
AC - DC POWER MODULE
6.3 ~ 7.6W UL / cUL / TUV / CE

FEATURES

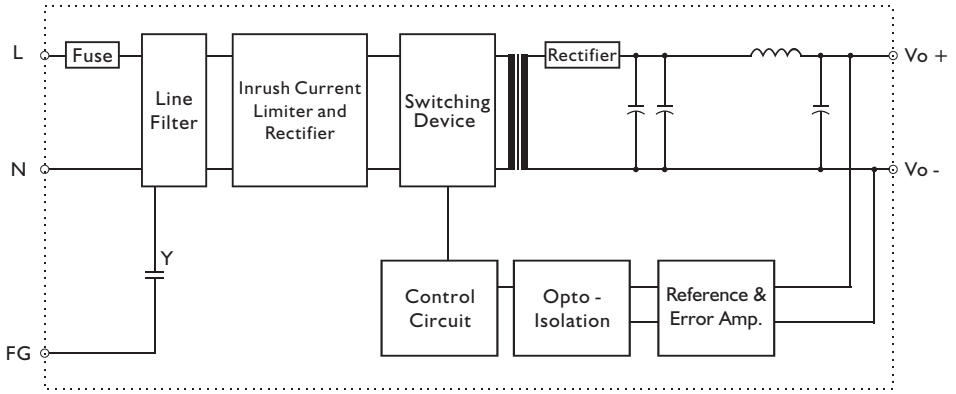
- AC/DC POWER MODULE
- UNIVERSAL INPUT 85 ~ 265 VAC
- HIGH EFFICIENCY UP TO 79%
- SHORT CIRCUIT PROTECTION
- INTERNAL INPUT FILTER
- 2 YEARS WARRANTY
- OPEN FRAME

MODEL LIST

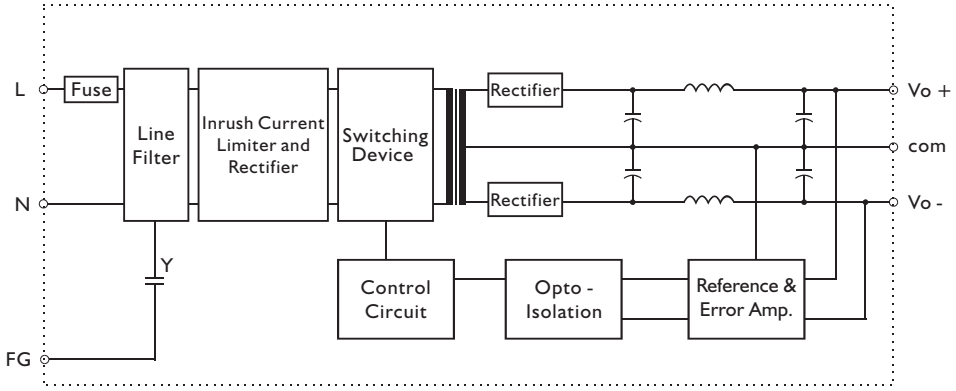
MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (typ.)	EFF. (min.)
			Single Output Models			
KAD0703	85~265 VAC	6.6 WATTS	+3.3 VDC	2000 mA	72%	69%
KAD0705	85~265 VAC	7.5 WATTS	+ 5 VDC	1500 mA	75%	72%
KAD0712	85~265 VAC	7.5 WATTS	+ 12 VDC	630 mA	78%	75%
KAD0715	85~265 VAC	7.5 WATTS	+ 15 VDC	500 mA	78%	75%
KAD0724	85~265 VAC	7.6 WATTS	+ 24 VDC	320 mA	79%	77%
			Dual Output Models			
KAD0712D	85~265 VAC	7.6 WATTS	±12 VDC	± 320 mA	77%	74%
KAD0715D	85~265 VAC	7.5 WATTS	±15 VDC	± 250 mA	78%	75%
KAD07503D	85~265 VAC	6.3 WATTS	+ 3.3 /+ 5 VDC	+ 1 A / + 0 . 6 A	68%	65%
KAD07512D	85~265 VAC	6.6 WATTS	+ 5 /+ 12 VDC	+0.6A / +0.3A	75%	72%

CIRCUIT SCHEMATIC

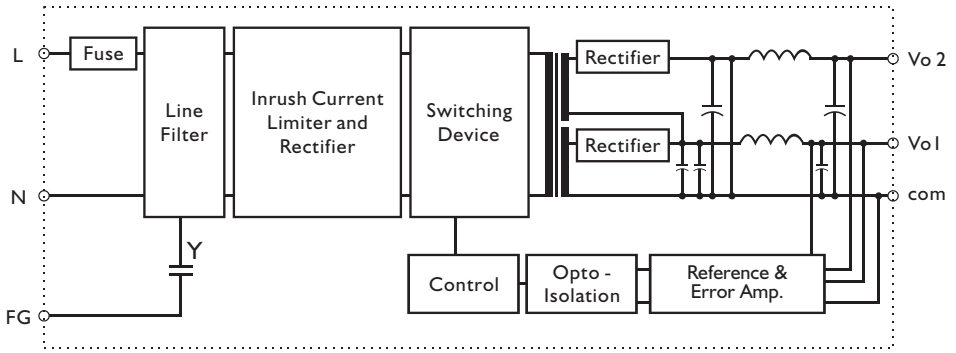
• Block diagram for KAD07 series with single output



• Block diagram for KAD07 series with dual output



• Block diagram for KAD07503D & KAD07512D



SPECIFICATION

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

GENERAL

Characteristics	Conditions	min.	typ.	max.	unit
Switching frequency	Vi nom, Io nom	80			KHz
Isolation voltage	Input / Output	3,000			VAC
Isolation resistance	Input / Output, @ 500VDC	100			MΩ
Ambient temperature	Operating at Vi nom, Io nom	-20		+ 71	°C
Derating	Vi nom, Io nom +51 to +71°C			2	% / °C
Storage temperature	Non operational	-40		+100	°C
Relative humidity	Vi nom, Io nom			95	% RH
Dimension	L58 x W45 x H18.5				mm
Cooling	Free air convection				
Base material	Plastic				

INPUT SPECIFICATIONS

Characteristics	Conditions		min.	typ.	max.	unit
Rated input voltage	Io nom		85		240	VAC
Input voltage range	Io nom	AC in	85		265	VAC
		DC in	120		370	VDC
Line frequency	Vi nom, Io nom		47		63	Hz
Inrush current	Io nom	Vi : 115VAC			10	A
		Vi : 230VAC			18	A

OUTPUT SPECIFICATIONS

Characteristics	Conditions		min.	typ.	max.	unit
Output voltage accuracy					±2	%
Minimum load	Vi nom	single output models	0			%
		dual output models (each output)	20			%
Line regulation	Io nom, Vi min ...Vi max				±1	%
Load regulation	Vi nom, Io min ...Io nom	single output models			±2	%
		dual output models			±5	%
Transient recovery time	Vi nom, Io nom = 1⟷0.5 Io nom			300		μS
Temperature coefficient	Vi nom, Io nom				± 0.02	% / °C
Ripple & noise	Vi nom, Io nom,BW = 20MHz		Vout x ±1% p-p max.			mV
Efficiency	Vi nom, Io nom, Po / Pi		Up to 79%, See model list			

CONTROL AND PROTECTION

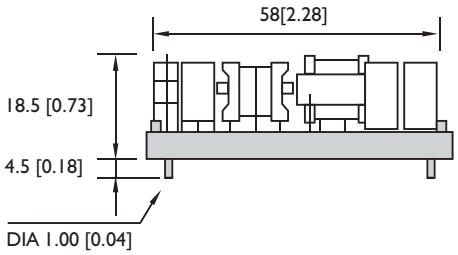
Input fuse	T2A / 250VAC internal
Output short circuit	By current limited

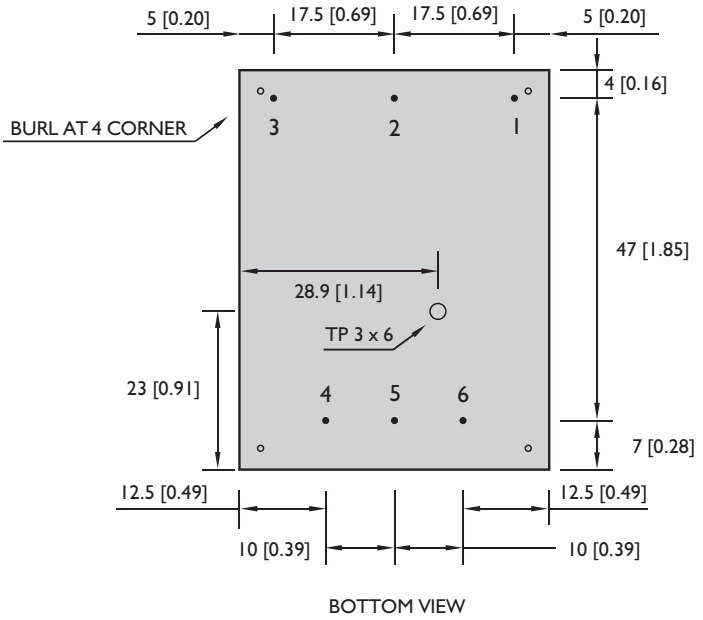
APPROVALS AND STANDARDS

UL / cUL	UL1950
TUV	EN60950
CE	EN55022 class B for EMI
	EN50082-1 for EMS

MECHANISM & PIN CONFIGURATION

mm [inch]





PHYSICAL CHARACTERISTICS

SIZE	58 x 45 x 18.5 mm 2.28 x 1.77 x 0.73 inches
BASE MATERIAL	Plastic
WEIGHT	42 g

PIN ASSIGNMENT

GENERAL

PIN NO.	1	2	3	4	5	6
SINGLE	LINE	NEUTRAL	F. G	Vo -	NO PIN	Vo +
DUAL	LINE	NEUTRAL	F. G	Vo -	com	Vo +
	LINE	NEUTRAL	F. G	+ 5V	com	+3.3V
	LINE	NEUTRAL	F. G	+12V	com	+5V

DERATING

