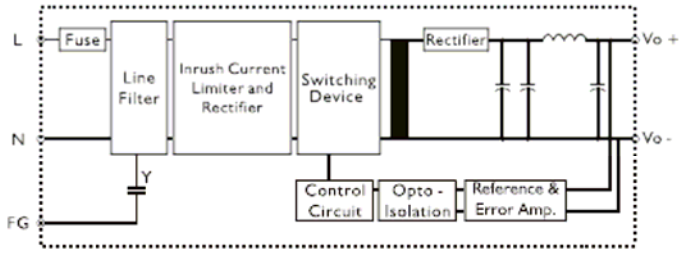
CA07KAM-Series

AC-DC POWER MODULE
6.3~7.6W SINGLE & DUAL OUTPUTS
Universal 85 ~ 265 VAC
High Efficiency
Internal Input Filter
Short Circuit Protection
2 Year Warranty

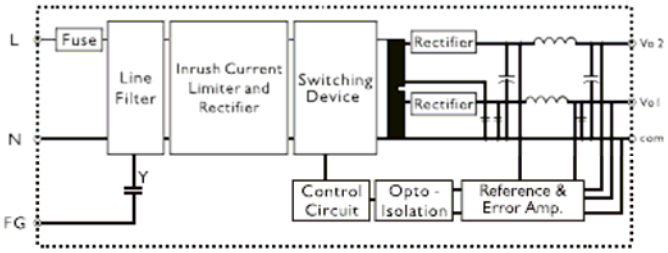
SINGLE OUTPUT MODELS						
Part Number	**Input Voltage**	**Output Wattage**	**Output Voltage**	**Output Current**	**Efficiency (typical)**	**Efficiency (minimum)**
CA07KAM03	85~265VAC	6.6 Watts	3.3 VDC	2000mA	72%	69%
CA07KAM05	85~265VAC	7.5 Watts	5VDC	1500mA	75%	72%
CA07KAM12	85~265VAC	7.5 Watts	12VDC	630mA	78%	75%
CA07KAM15	85~265VAC	7.5 Watts	15VDC	500mA	78%	75%
CA07KAM24	85~265VAC	7.6 Watts	24VDC	320mA	79%	77%

DUAL OUTPUT MODELS						
Part Number	**Input Voltage**	**Output Wattage**	**Output Voltage**	**Output Current**	**Efficiency (typical)**	**Efficiency (minimum)**
CA07KAM12D	85~265VAC	7.6 Watts	+/-12VDC	+/-320mA	77%	74%
CA07KAM15D	85~265VAC	7.5 Watts	+/-15VDC	+/-250mA	78%	75%
CA07KAM503D	85~265VAC	6.3 Watts	+3.3/+5VDC	+1/+0.6A	68%	65%
CA07KAM512D	85~265VAC	6.6 Watts	+5/+12VDC	+0.6A/+0.3A	75%	72%

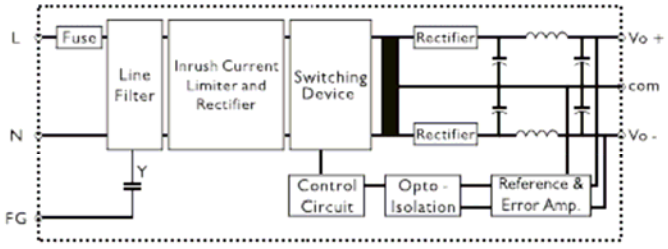
Block diagram for CA07KAM series with single output



Block diagram for CA07KAM503D & CA07KAM512D



Block diagram for CA07KAM series with dual output



CA07KAM-Series

All Specifications Typical at Nominal Line, Full Load, 25 C Unless Noted Otherwise

GENERAL					
Characteristics	Conditions	Min	Typ	Max	Unit
Switching frequency	Vi nom, Io nom	80			KHz
Isolation Voltage	Input/Output	3,000			VDC
Isolation Resistance	Input/Output, @500VDC	100			MΩ
Ambient Temp	Operating at Vi nom Io nom	-20		+71	C
Case Temperature	Operating at Vi nom, Io nom			+85	C
Derating	Vi nom, Io nom +51 to +71C			2	%/C
Storage Temp.	Non Operational	-40		+100	C
Relative Humidity	Vi nom, Io nom			95	% RH
Cooling	Free air convection				

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	Vi nom, Io nom			+/-2	%
Minimum load	Vi nom single output model	0			%
	Vi nom dual output model (each output)	20			%
Line regulation	Io nom, Vi min … Vi max			+/-1	%
Load regulation	Vi nom, Io 0 … Io nom, single output models			+/-2	%
	Vi nom, Io min … Io nom, dual output models			+/-5	%
Transient recovery time	Vi nom, Io = to 0.5 Io nom		300		uS
Temperature coefficient	Vi nom, Io nom			+/-0.02	%/C
Ripple & Noise	Vi nom, Io nom, BW =20MHz	Vout x +/-1%p-p max.			mV

Control & Protection	
Input Fuse	T2A/250VAC internal
Output short circuit	By current limited

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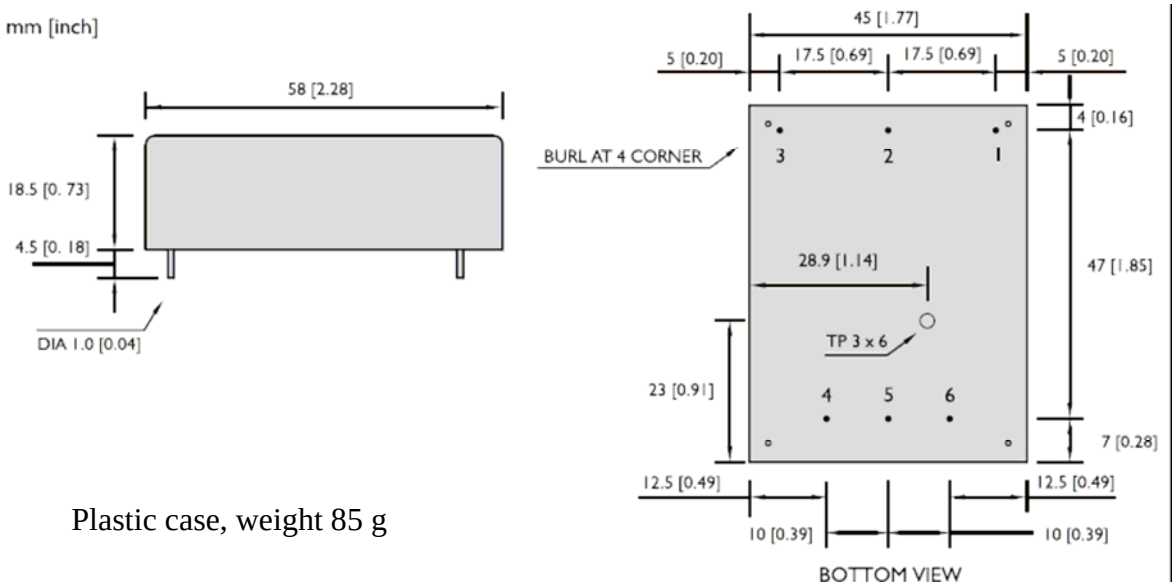

Plastic case, weight 85 g

PIN ASSIGNMENT						
Pin No	1	2	3	4	5	6
SINGLE	LINE	NEUTRAL	F.G.	Vo-	NO PIN	Vo +
DUAL	LINE	NEUTRAL	F.G.	V0-	com	Vo +
	LINE	NEUTRAL	F.G.	+5V	com	+3.3V
	LINE	NEUTRAL	F.G.	+12	com	+5V

DERATING @ Ambient Temperature C