

Measures: 5.00 x 3.00 x 1.40"





EAC-10-472

Recommended EMI/EMC Filter

High voltage pulse noise type : EAP series Low leakage current type: EAM series

*The EMI/EMC Filter is recommended to connect with several devices.

①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage ⑥Optional *6

T3: mounting hole M3 J1: VH(J.S.T.)connector type R3: with Subfeatures (5VAUX,12VAUX,Remote, Power good) P: Pallarel Operation

Specification is changed at option, refer to Instruction manual.

[Cautions]

- inautions]

 Forced air cooling is required for the maximum output power. Please see instruction manual.

 Avoid applying stress to surface mount components.

 De-rating is required if the applied input voltage is 90-115VAC.

 The electrolytic capacitor has limited life span which is very much dependent on the actual operating conditions.

 Operating in the presense of chemical vapors or harsh environmnet can affect the power supply life expectnacy.

 Please make sure to read the instruction manual carefully before using this product.

It should be in the "Instruction Manual" not spec shee	et
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MODEL			GHA500F-12	GHA500F-15	GHA500F-24	GHA500F-48
MAX OUTPUT WATTAGE[W]		500.8	501	504	504	
	Forced air	at 50°C	12V 41.7A	15V 33.4A	24V 21.0A	48V 10.5A
DC OUTPUT		at 40°C	12V 12.5A	15V 10.0A	24V 6.3A	48V 3.2A
		at 50°C	12V 9.2A	15V 7.4A	24V 4.6A	48V 2.3A
		at 0°C	12V 30.0A	15V 24.0A	24V 15.0A	48V 7.5A
	cooling	at 50°C	12V 16.7A	15V 13.4A	24V 8.4A	48V 4.2A

SPECIFICATIONS

	MODEL		GHA500F-12	GHA500F-15	GHA500F-24	GHA500F-48		
	VOLTAGE[V]		AC90 - 264 1 φ (output o	derating is required at AC	90V -115V *3)			
	OUDDENTIAL	ACIN 120V						
	CURRENT[A]	ACIN 230V	2.9typ					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	EEEIOIENOV(0/1	ACIN 120V	88typ	90typ	90typ	90typ		
IPUT	EFFICIENCY[%]	ACIN 230V	90typ	92typ	92typ	92typ		
	POWER FACTOR	ACIN 120V	0.95typ					
	(lo=100%)	ACIN 230V	0.90typ					
	INRUSH CURRENT[A]							
	INKUSH CUKKENT[A]	ACIN 230V						
	LEAKAGE CURRENT[mA]		0.125/0.250max (ACIN 1	120V/240V 60Hz,Io=100	%, According to IEC60601			
	VOLTAGE[V]		12	15	24	48		
			41.7	33.4	21.0	10.5		
	CURRENT[A]	Convection		7.4	4.6	2.3		
		conduction cooling		13.4	8.4	4.2		
	LINE REGULATION[48max	60max	96max	192max		
	LOAD REGULATION			120max	150max	240max		
	RIPPLE[mVp-p] *1	0 to +50°C	240max	240max	240max	300max		
	TIII T EE[III VP-P]		320max	320max	320max	400max		
DUTPUT	RIPPLE NOISE[mVp-p]*1		300max	300max	300max	480max		
	TILL I EE HOIOE[IIIVP-P]		360max	360max	360max	500max		
	TEMPERATURE REGULATION[mV]		120max	120max	240max	480max		
			150max	150max	290max	600max		
				60max	96max	192max		
	START-UP TIME[ms]		500typ (ACIN 120V, Io=100%)					
	HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		16typ (ACIN 120V, Io=10		04 60 +- 06 40	40.00 to 50.00		
			10.80 to 13.20 12.00 to 12.48	13.50 to 16.50	21.60 to 26.40	43.20 to 52.80 48.00 to 49.92		
	OUTPUT VOLTAGE SET OVERCURRENT PROT		Works over 105% of rat	15.00 to 15.30	24.00 to 24.96	48.00 to 49.92		
			13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	55.20 to 67.20		
PROTECTION	OVERVOLTAGE PROTECTION[V]		Optional	17.25 to 21.00	27.00 10 33.00	55.20 10 67.20		
CIRCUIT AND	AUX1 (12V1A) AUX2 (5V1A)		Optional					
OTHERS	REMOTE ON/OFF		Optional					
	PowerGood		Optional					
	INPUT-FG		AC2,000V 1minute, Outoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
SOLATION	OUTPUT · RC · AUX-FG *7							
	OUTPUT-RC · AUX	*7						
	OPERATING TEMPHUMID.AND ALTITUDE							
	STORAGE TEMP.,HUMID.AND ALTITUDE							
NVIRONMENT	VIBRATION			10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis					
AFETY AND	AGENCY APPROVAL	LS	UL60950-1, ANSI/AMII					
NOISE	CONDUCTED NOISE			CC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B				
	HARMONIC ATTENU							
	CASE SIZE/WEIGHT		76.2×35×127mm [3.0)	X14X50 inches] (WXH	IXD) / 420g max			
OTHERS	OAGE GIZE/WEIGHT							

This is the value that measured on measuring board with capacitor of $22\,\mu\,F$ at 150mm from output terminal.

- Please contact us about dynamic load and input response

- Please contact us about another class.
- Specification is changed at option, refer to Instruction Manual. Applicable when AUX and remote control (optional) is added.
- To meet the specifications. Do not operate over-loaded condition
- Sound noise may be generated by power supply in case of pulse load.
- Parallel operation is not possible.

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

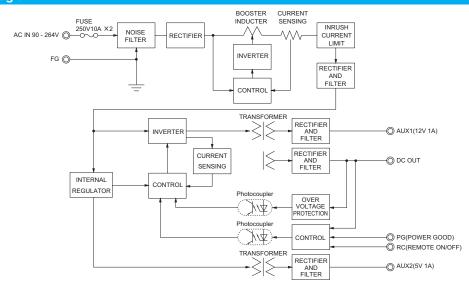


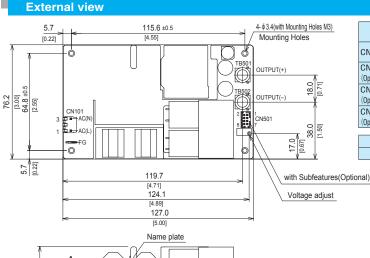
Measures: 5.00 x 3.00 x 1.40"

Features

- · Wattage 500W max
- High Power density:24.1W/inch³
 High efficiency 92% typ (Input Voltage 230V,Output Voltage 24V)
- · Conduction cooling · 3 "× 5 "standard footprint
- · Fits 1U applications
- · Industrial and Medical safety approvals
- · Low leakage current
- · With Remote On/Off (Optional)
- · With AUX1 (5V), AUX2 (12V) (Optional)
- · No minimum load is required

Block diagram





	[5.00] Name plate	
	Name plate	
35	COSEL	16.5 [0.65] 24.5 (0.96]

- ※ Tolerance ±1 [±0.04]
- Weight: 420g max
 There is a total of four attachment holes.
 Base Plate: Aluminum

- Dimensions in mm, []=inches
 Screw tightening torque : (TB501, 502) : 1.5N · m max
 Mounting toque : 0.6N · m max
 Avoid contact between TB501 and 502 wiring with mounting parts.
- ※ Option : -J1 : (J.S.T) connector type. Refer to Instruction Manual 5.

1/0	Connector	Mating connector	Terminal	Mfr	
CN101	A-41671-A03A197-2	09-50-8031	08-50-0105 08-65-0114	MOLEY	
CN501 (Optional)	087831-0820	51110-0851	50394-8051	MOLEX	
CN101 (Optional)	B2P3-VH	VHR-3N	SVH-21T-P1.1	LCT	
CN501 (Optional)	B8B-PHDSS	PHDR-08VS	SPHD-002T-P0.5	J.S.T.	

FG		Mating connector	Terminal	Mfr
-	250 Series	-	170603-2	Tyco Electronics

<Pin Assignments>

<CN101>

Pin No.	Input
1	AC(L)
2	
3	AC(N)

<CN501(Optional)>

Pin No.	Function
1	AUX1 : AUX1 (12V1A)
2	AUX1G: AUX1 (GND)
3	RC1 : REMOTE ON/OFF
4	RCG : REMOTE ON/OFF (GND)
5	PG : Power good
6	PGG : Power good (GND)
7	AUX2 : AUX2 (5V1A)
8	AUX2G: AUX2 (GND)



CN501