

**Recommended EMI/EMC Filter
EAC-10-472**

High voltage pulse noise type : EAP series
 Low leakage current type : EAM series
 *The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
 - ② Single output
 - ③ Output wattage
 - ④ Universal input
 - ⑤ Output voltage
 - ⑥ Optional *6
 - J1 : CN501
 - VH(J.S.T.)connector type
 - P : Pallarel Operation
- Refer to the instruction manual 5.1.

MODEL	GHA500F-12-SNF	GHA500F-15-SNF	GHA500F-24-SNF	GHA500F-30-SNF	GHA500F-48-SNF	GHA500F-56-SNF
MAX OUTPUT WATTAGE[W]	450	501	504	501	504	504
DC OUTPUT	12V 37.5A	15V 33.4A	24V 21.0A	30V 16.7A	48V 10.5A	56V 9.0A

SPECIFICATIONS

	MODEL	GHA500F-12-SNF	GHA500F-15-SNF	GHA500F-24-SNF	GHA500F-30-SNF	GHA500F-48-SNF	GHA500F-56-SNF	
INPUT	VOLTAGE[V]	AC90 - 264 1φ (output derating is required at AC90V -115V *3)						
	CURRENT[A]	ACIN 120V	4.8typ	5.4typ				
		ACIN 230V	2.6typ	2.9typ				
	FREQUENCY[Hz]	50 / 60 (47 - 63)						
	EFFICIENCY[%]	ACIN 120V	87typ	89typ	89typ	89typ	89typ	89typ
		ACIN 230V	89typ	91typ	91typ	91typ	91typ	91typ
	POWER FACTOR (lo=100%)	ACIN 120V	0.95typ					
ACIN 230V		0.90typ						
INRUSH CURRENT[A]	ACIN 120V	20typ (lo=100%) (At cold start) (Ta=25°C)						
	ACIN 230V	40typ (lo=100%) (At cold start) (Ta=25°C)						
LEAKAGE CURRENT[ma]	0.125/0.250max (ACIN 120V/240V 60Hz,lo=100%, According to IEC60601-1)							
OUTPUT	VOLTAGE[V]	12	15	24	30	48	56	
	CURRENT[A]	Forced air	37.5	33.4	21.0	16.7	10.5	9.0
	LINE REGULATION[mV] *4	48max	60max	96max	120max	192max	192max	
	LOAD REGULATION[mV] *4	100max	120max	150max	180max	240max	240max	
	RIPPLE[mVp-p] *1	0 to +50°C	240max	240max	240max	300max	300max	400max
		-20 - 0°C	320max	320max	320max	400max	400max	500max
	RIPPLE NOISE[mVp-p]*1	0 to +50°C	300max	300max	300max	480max	480max	500max
		-20 - 0°C	360max	360max	360max	500max	500max	580max
	TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	240max	300max	480max	480max
		-20 to +50°C	150max	180max	290max	360max	600max	600max
	DRIFT[mV] *2	48max	60max	96max	120max	192max	192max	
	START-UP TIME[ms]	500typ (ACIN 120V, lo=100%)						
	HOLD-UP TIME[ms]	16typ (ACIN 120V, lo=100%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	27.00 to 31.50	43.20 to 52.80	52.00 to 56.00		
OUTPUT VOLTAGE SETTING[V]	12.00 to 12.48	15.00 to 15.30	24.00 to 24.96	30.00 to 31.20	48.00 to 49.92	55.00 to 56.00		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically *7						
	OVERVOLTAGE PROTECTION[V]	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	34.50 to 42.00	55.20 to 67.20	60.00 to 69.00	
	AUX1	12V 0.5A						
	AUX2	5V 1A						
	REMOTE ON/OFF	Possible, AUX2 is available						
	PowerGood	Open corrector						
ISOLATION	INPUT-OUTPUT · RC · AUX	AC4,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT · RC · AUX-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT-RC · AUX	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-20 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max *3						
	STORAGE TEMP., HUMID. AND ALTITUDE	-30 to +80°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, ANSI/AAMI ES60601-1, C-UL(CSA60950-1, CAN/CSA60601-1), EN60950-1, EN60601-1 3rd						
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B						
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (class A) *5						
OTHERS	CASE SIZE/WEIGHT	85.2 X 41 X 165.3mm [3.35 X 1.61 X 6.5 inches] (W X H X D) / 660g max						
	COOLING METHOD	Forced air						

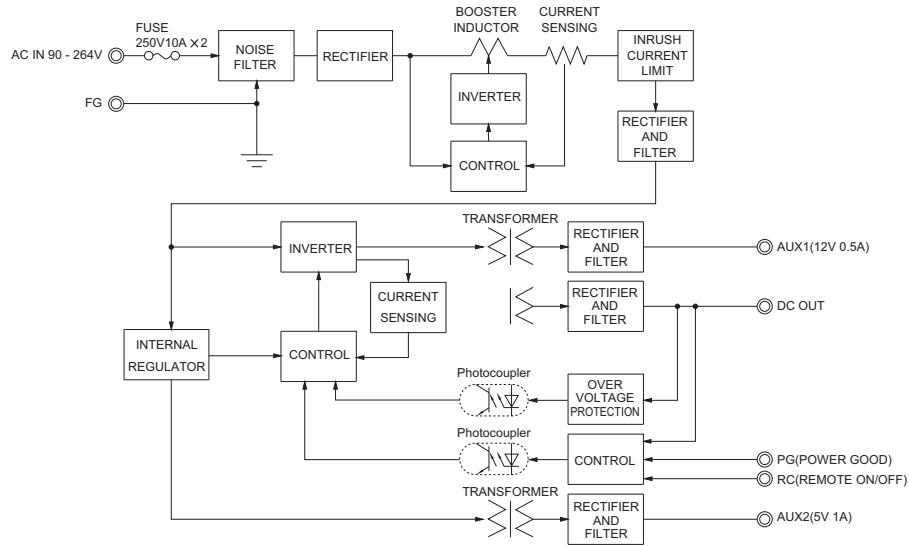
*1 This is the value that measured on measuring board with capacitor of 22μF at 150mm from output terminal.
 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
 *3 Derating is required.
 *4 Please contact us about dynamic load and input response.
 *5 Please contact us about another class.
 *6 Specification is changed at option, refer to Instruction Manual.
 *7 When output current more than rated, output will shut down after 5 seconds or more. Recycle input after 3 minutes to reset the protection.
 * 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 available with -P option. Refer to 5.1 on the instruction manual.

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

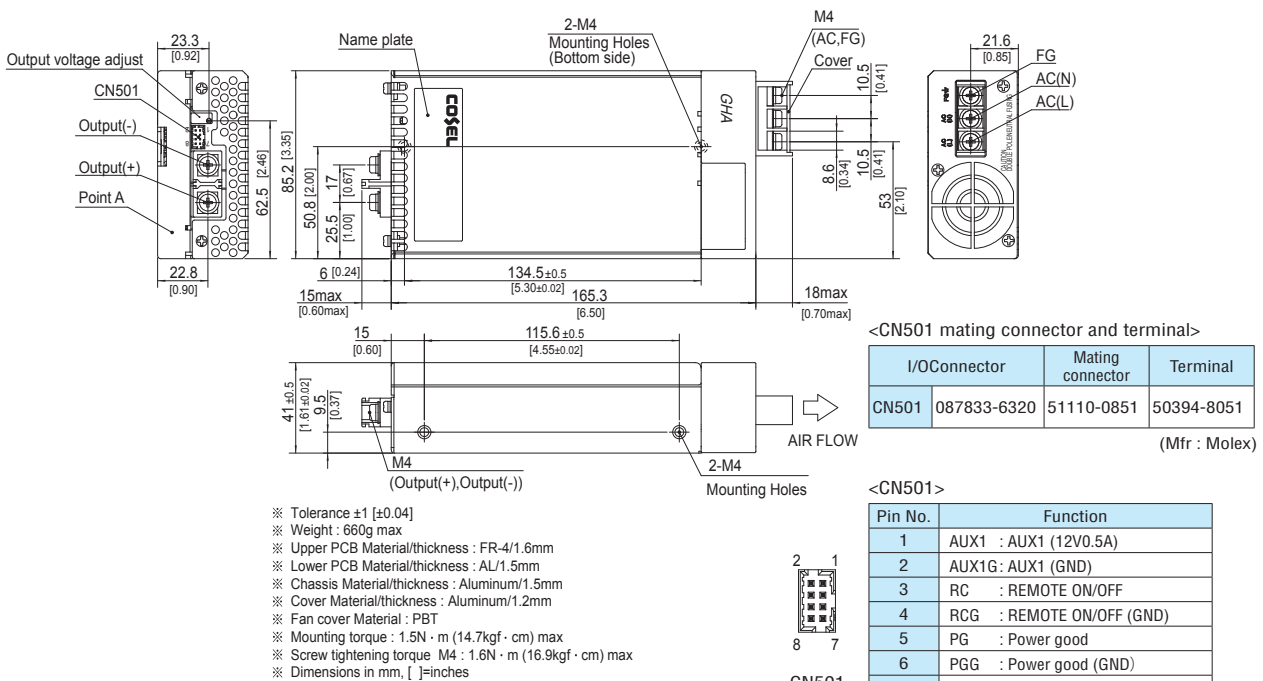
Features

- Full packaged desin united with GHA's features and additional robastness..
- High efficiency 91% typ (Input voltage 230V,Output voltage 24V)
- 50% minimized size compare with privious products.
- Optical for 1U applications
- Medical and Industrial safety approvals
- Low leakage current
- Conformal coating
- Single remote ON/OFF control for DC output, AUX1 and Fan.
- Isolated dual AUX (AUX1 12V 0.5A, AUX2 5V 1A)

Block diagram



External view



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