GHA300F-SNF

A 300





Example recommended EMI/EMC filter EAC-10-472

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

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

1)Series name
2)Single output
3)Output wattage
4)Universal input
5)Output voltage

®Optional *6

J1: CN501 PH(J.S.T.)connector type

Refer to the instruction manual

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL		GHA300F-12-SNF	GHA300F-24-SNF	GHA300F-48-SNF	
MAX OUTPUT WATTAGE[W]		300	300	302.4	
DC OUTPUT Forced air +50°C		12V 25.0A	24V 12.5A	48V 6.3A	

SPECIFICATIONS

	MODEL		GHA300F-12-SNF	GHA300F-24-SNF	GHA300F-48-SNF		
	VOLTAGE[V]		AC90 - 264 1 φ (output derating is required at AC90V -115V *3)				
INPUT	CURRENTIAL ACIN 120V		3.3tvp				
			1.8typ				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
	EFFICIENCY[%]	ACIN 120V	88typ	89typ	89typ		
		ACIN 230V		91typ	91typ		
			0.95typ				
	(Io=100%) ACIN 230V						
	INRUSH CURRENT[A]	ACIN 120V	1 - 31 (/ (/ (/				
	INNUSH CONNENT[A]	ACIN 230V	40typ (Io=100%) (At cold start) (Ta=25°C)				
	LEAKAGE CURRENT[mA]		0.125/0.250max (ACIN 120V/240V 60Hz,lo=100%, According to IEC60601-1)				
	VOLTAGE[V]		12	24	48		
		Forced air		12.5	6.3		
	LINE REGULATION[48max	96max	192max		
	LOAD REGULATION			150max	240max		
	RIPPLE[mVp-p] *1		240max	240max	300max		
	KIPPLE[IIIVP-P]	-20 - 0°C	320max	320max	400max		
	RIPPLE NOISE[mVp-p]*1		300max	300max	480max		
OUTPUT	RIPPLE NOISE[mvp-p]*		360max	360max	500max		
	TEMPERATURE REGULATION[mV]		120max	240max	480max		
			150max	290max	600max		
	DRIFT[mV]	*2	48max	96max	192max		
	START-UP TIME[ms]		500typ (ACIN 120V, Io=100%)				
	HOLD-UP TIME[ms]		16typ (ACIN 120V, Io=100%)				
			10.80 to 13.20	21.60 to 26.40	43.20 to 52.80		
	OUTPUT VOLTAGE SETTING[V]		12.00 to 12.48	24.00 to 24.96	48.00 to 49.92		
	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically *7				
PROTECTION			13.80 to 16.80	27.60 to 33.60	55.20 to 67.20		
CIRCUIT AND	AUX1		10V 0.5A				
OTHERS	AUX2		5V 1A				
	REMOTE ON/OFF		Possible, AUX2 is available				
	PowerGood		Open corrector				
	INPUT-OUTPUT · RC · AUX		AC4,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) 2MOPP				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) 1MOPP				
	OUTPUT · RC · AUX-	FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-RC · AUX		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)				
	OPERATING TEMP., HUMID. AND ALTITUDE		== == (= = = = = = (= = = = = = = =				
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE		-30 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
-14 A II IOIAIMEIA I	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				
SAFETY AND	AGENCY APPROVALS		UL60950-1, ANSI/AAMI ES60601-1, C-UL(CSA60950-1, CAN/CSA60601-1), EN60950-1, EN60601-1 3rd				
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B				
HEGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (class A) *5 85.2×41×165.3mm [3.35×1.61×6.5 inches] (W×H×D) / 620g max				
OTHERS	CASE SIZE/WEIGHT			6.5 inches] (W×H×D) / 620g max			
	COOLING METHOD		Forced air				

- This is the value that measured on measuring board with capacitor of 22 µF 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.

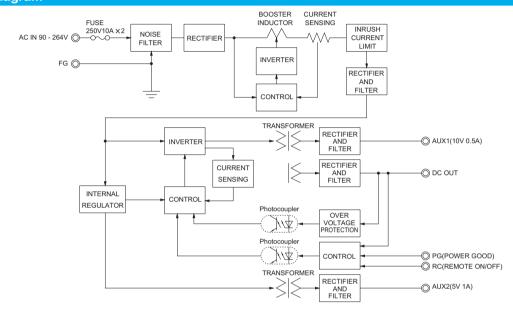
- Specification is changed at option, refer to Instruction Manual.
- When output current more than rated, output will shut down after 5 seconds or more.
- Recycle input after 3 minutes to reset the protection.
- To meet the specifications. Do not operate over-loaded condition.
- Sound noise may be generated by power supply in case of pulse load



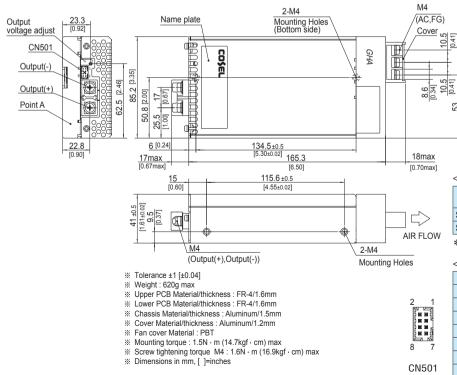
Features

- · Full packaged desin united with GHA's features and additional robastness..
- · High efficiency 91% typ (Input voltage 230V,Output voltage 24V)
- · 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 10V 0.5A, AUX2 5V 1A)

Block diagram



External view





FG

AC(N)

AC(L)

	Co	nnector	Mating connector	Terminal	Mfr
	SNF	087833-6320	51110-0851	50394-8051	Molex *
	SNFJ1	S8B-PHDSS	PHDR-08VS	SPHD-002T-P0.5	J.S.T.
45 PM					

*Please note the pin position No.1 is different from Molex.

<CN501>

Pin No.	Function
1	AUX1 : AUX1 (10V0.5A)
2	AUX1G: AUX1 (GND)
3	RC : 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)