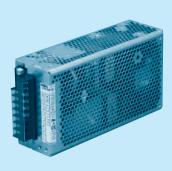
ADA750F

ADA 750 F -24





Recommended EMI/EMC Filter NAC-20-472

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

- Series name
 Output wattage
 Universal input
- 4 Output voltage

- SOptional *7
 G:Low leakage current
 E:Low leakage current and EMI class A
 - :with Fan unit
 - T :Vertical terminal block
- J :Connector type C :with Coating R :Remote ON/OFF
- N1:DIN rail
- W:Alarms and Redundant operation

Specification is changed at option, refer to Instruction Manual.

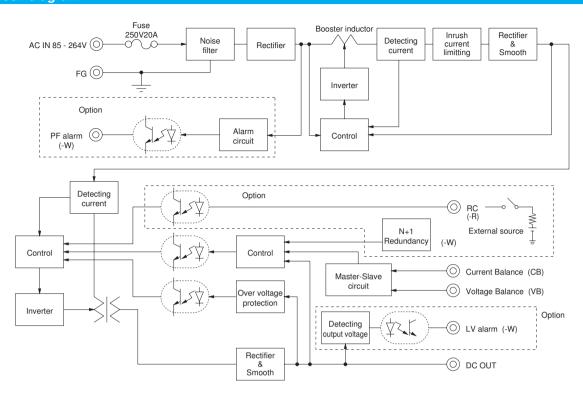
Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

SPECIFICATIONS

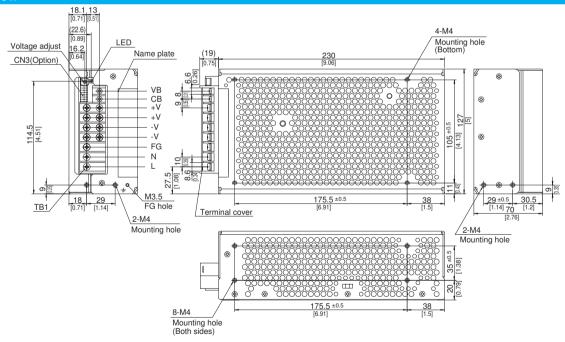
	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48	
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available *6)				
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EEEIOIENOVIO/1	ACIN 100V	86typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)	
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (Io=100%)	89typ (lo=100%)	89typ (Io=100%)	
INPUT	DOWED FACTOR	ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)				
	INRUSH CURRENT[A]	ACIN 100V *1	20typ (lo=100%) (More than 3sec.to re-start)				
		ACIN 200V *1	40typ (lo=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (lo=100%)				
	VOLTAGE[V]		24	30	36	48	
		ACIN 100V *2	17 (Peak 42) convection	13.5 (Peak 33.5) convection	11 (Peak 28) convection	8 (Peak 21) convection	
	OUDDENTIAL	ACIN 100V *2	25 (Peak 42) forced air	20 (Peak 33.5) forced air	16.5 (Peak 28) forced air	12.5 (Peak 21) forced air	
	CURRENT[A]	ACIN 200V *2	19 (Peak 63) convection	15 (Peak 50) convection	12.5 (Peak 42) convection	9 (Peak 31.5) convection	
		ACIN 200V *2	31.5 (Peak 63) forced air	24.5 (Peak 50) forced air	20.5 (Peak 42) forced air	15.5 (Peak 31.5) forced air	
	LINE REGULATION[I	mV]	96max	120max	144max	192max	
	LOAD REGULATION	[mV]	150max	180max	240max	300max	
	DIDDI Elm/m ml	0 to +50°C *3	120max	160max	200max	200max	
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max	
	DIDDLE MOICE(V1	0 to +50°C *3	150max	190max	230max	250max	
	RIPPLE NOISE[mVp-p]	-10 - 0℃ *3	180max	250max	280max	400max	
	TEMPERATURE REGULATION[mV]	0 to +50℃	240max	300max	360max	480max	
	DRIFT[mV] *4		96max	120max	144max	192max	
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		21.6 - 27.0	27.0 - 33.0	33.0 - 41.0	41.0 - 52.8	
	OUTPUT VOLTAGE SETTING[V]		23.5 - 24.5	29.0 - 31.0	35.0 - 37.0	47.0 - 49.0	
	OVERCURRENT PROTECTION		Works over 101% of peak co	urrent and recovers automatic	ally		
PROTECTION	OVERVOLTAGE PROTECTION[V]		31 - 34.5	40 - 48	51 - 60	64 - 76	
	OPERATING INDICA	TION	LED (Green)				
OTHERS	ALARM OUTPUT		Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 5)				
	REMOTE ON/OFF(RO	C)	Requirement for external source (Option : -R, refer to Instruction Manual 5)				
	INPUT-OUTPUT · RC *5		The special content of				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG *5		AC500V 1 minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)				
	OPERATING TEMP.;HUMID.AND ALTITUDE						
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	<u> </u>				
LIVIIIONIIILIVI	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			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)				
NOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
REGULATIONS	HANWONIC ATTENUATOR		Complies with IEC61000-3-2 *8				
OTHERS	CASE SIZE/WEIGHT		70×127×230mm [2.76×5×9.06 inches] (W×H×D) (without terminal block) /1.9kg max				
	COOLING METHOD		Convection/Forced air				

- *1 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
- *4 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.
- Applicable when remote control (optional) is added.
- *6 Derating is required.Consult us for details.
- Please contact us about safety approvals for the model with option.
- Please contact us about class C.
- A sound may occur from power supply at pulse loading.

Block diagram



External view



A Till doolgii					
Symbol	Symbol Function				
VB	Voltage balance	M3			
CB	Current balance	IVIS			
+V	Output terminal(+)				
+V	Output terminal(+)				
-V	Output terminal(-)	M4			
-V	Output terminal(-)	IVI4			
FG	Frame ground				
N	AC(N)				
1	AC(L)				

L	AC(L)	
Average 2	A max per pin for TB1	

ക	GN3(Option)		
	Pin No.	Function	
2 1	1	RC+ : Remote ON/OFF+(-R)	
6 5	2	RC- : Remote ON/OFF-(-R)	
10 9	3-8	NC : N.C.	
12 11	9	LV+ : LV Alarm(-W)	
1	10	LV- : LV Alarm ground(-W)	
	11-12	NC : N.C.	
	13	PF+ : PF Alarm(-W)	
	14	PF- : PF Alarm ground(-W)	

	Connector	ivialing connector	reminai	IVIII.
			Chain:SPHD-002T-P0.5	
CN3	S14B-PHDSS	PHDR-14VS	Loose:BPHD-001T-P0.5	J.S.T
			BPHD-002T-P0.5*1	
*1 Ratchet Hand is nothing				

* Pin assign

[#] Tolerance : ±1 [±0.04]

Weight : 1.9kg max

PCB material / thickness : FR-4 / 1.6mm [0.06]

Chassis and cover material : aluminium

Dimensions in mm, []= inches

Mounting torque : 1.2N • r(1.2.8kgf • cm) max

Screw tighting torque

4 : 1.6N • r(1.6.9kgf • cm) max, M3 : 0.8N • m(8.5kgf • cm) max

10 terminal for option-J and -T is shown in Instruction Manual 5.