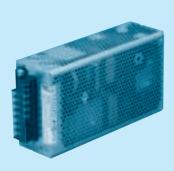
ADA 750 F -24

**ADA** 

c Sus Like CE **RoHS** 





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

- ①Series name ②Output wattage
- 3 Universal input
- Output voltage
- ⑤Optional \*7
- G:Low leakage current
  E:Low leakage current
  and EMI class A
- F :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.

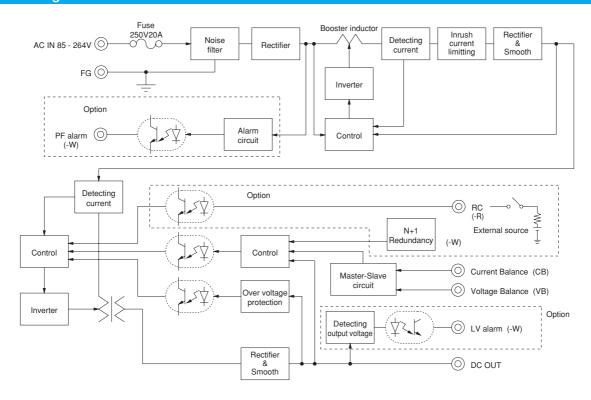
Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

## **SPECIFICATIONS**

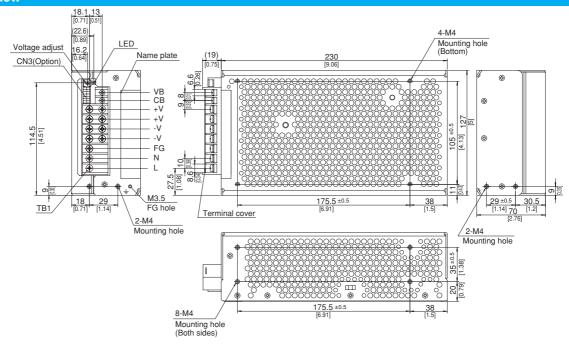
	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48	
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available *6)				
Ī	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
Γ.	=======================================	ACIN 100V	86typ (lo=100%)	86typ (lo=100%)	87typ (Io=100%)	87typ (lo=100%)	
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (lo=100%)	89typ (Io=100%)	89typ (lo=100%)	
INPUT .		ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR	ACIN 200V					
Γ.		ACIN 100V *1	20typ (lo=100%) (More than 3sec.to re-start)				
	INRUSH CURRENT[A]	ACIN 200V *1	40typ (lo=100%) (More than 3sec.to re-start)				
Ī	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (Io=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	
		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	
Ī	LINE REGULATION[I	mV]	96max	120max	144max	192max	
Ī	LOAD REGULATION	[mV]	150max	180max	240max	300max	
	DIDDLE[\/	0 to +50°C *3	120max	160max	200max	200max	
OUTPUT '	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max	
Γ.	DIDDLE NOISE	0 to +50°C *3	150max	190max	230max	250max	
'	RIPPLE NOISE[mVp-p]	-10 - 0℃ *3	180max	250max	280max	400max	
1	TEMPERATURE REGULATION[mV]	0 to +50℃	240max	300max	360max	480max	
1	DRIFT[mV] *4		96max	120max	144max	192max	
5	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)				
I	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=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 PROT	ECTION	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 INDICATION		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(RC)		Requirement for external source (Option : -R, refer to Instruction Manual 5)				
	INPUT-OUTPUT · RC *5		rice/seer minute/ extendent remain personal remains (rich remains and remains)				
ISOLATION L	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)				
	OUTPUT · RC-FG *5		AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At Room Temperature)				
-	OPERATING TEMP.,HUMID.AND ALTITUDE						
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
· [	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis				
SAFETY AND	AGENCY APPROVALS		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				
	HANWONIC ATTENUATOR		Complies with IEC61000-3-2				
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				

- $\textcolor{red}{*1} \ \, \text{The value is primary surge.The current of input surge to a built-in EMI/EMC Filter (0.2ms or a built-in EMI/EMC Filter$ 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.
- \*3 This is the value that measured on measuring board with capacitor of 22 µF 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.
- \*5 Applicable when remote control (optional) is added.
  \*6 Derating is required.Consult us for details.
- \*7 Please contact us about safety approvals for the model with option.
- A sound may occur from power supply at pulse loading.

## **Block diagram**



## **External view**



## \* Pin assign

Symbol	Function	Screw type		
VB	Voltage balance			
CB	Current balance	M3		
+V	Output terminal(+)			
+V	Output terminal(+)	M4		
-V	Output terminal(-)			
-V	Output terminal(-)			
FG	Frame ground			
N	AC(N)			
L	AC(L)			



la la	CN3(Option)				
	Pin No.	Function			
2 1 4 3	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)			
Ш	10	LV- : LV Alarm ground(-W)			
	11-12	NC : N.C.			
	13	PF+ : PF Alarm(-W)			
	14	PF- : PF Alarm ground(-W)			
		•			

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

- # 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 : 1.2h "(12.8kgf cm) max
  # Screw tighting torque
  # 4 : 1.6h "(16.9kgf cm) max, M3 : 0.8h m(8.5kgf cm) max
  # / 100 terminal for option-J and -T is shown in Instruction Manual 5.

Average 21A max per pin for TB1