ADA

①Series name ②Output wattage

3 Universal input Output voltage







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

- 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.

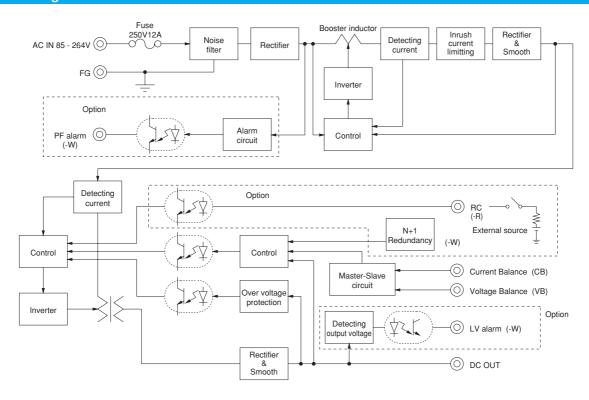
SPECIFICATIONS

	MODEL		ADA600F-24	ADA600F-30	ADA600F-36	ADA600F-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							
	EFFICIENCY[%]	ACIN 100V	84typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)				
	EFFICIENCY[%]	ACIN 200V	86typ (Io=100%)	87typ (lo=100%)	87typ (Io=100%)	89typ (Io=100%)				
INPUT	DOWED 54070D	ACIN 100V	.99typ (lo=100%)							
	POWER FACTOR	ACIN 200V	.98typ (lo=100%)							
	INRUSH CURRENT[A]	ACIN 100V * 1	20typ (Io=100%) (More than	3sec.to re-start)						
	INRUSH CURRENT[A]	ACIN 200V * 1	40typ (Io=100%) (More than	3sec.to re-start)						
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According t	o IEC60950 and DEN-AN) (Ic	=100%)					
	VOLTAGE[V]		24	30	36	48				
		ACIN 100V *2	14 (Peak 25) convection	11 (Peak 20) convection	9 (Peak 16.5) convection	6.5 (Peak 12.5) convection				
	CURRENT[A]	ACIN 100V *2	21 (Peak 25) forced air	16.5 (Peak 20) forced air	14 (Peak 16.5) forced air	10.5 (Peak 12.5) forced air				
	CONNENT[A]	ACIN 200V *2	15 (Peak 31) convection	12 (Peak 24.5) convection	10 (Peak 20.5) convection	7 (Peak 15.5) convection				
		ACIN 200V *2	25 (Peak 31) forced air	20 (Peak 24.5) forced air	16.5 (Peak 20.5) forced air	12.5 (Peak 15.5) forced air				
	LINE REGULATION[1	nV]	96max	120max	144max	192max				
	LOAD REGULATION	[mV]	150max	180max	240max	300max				
	RIPPLE[mVp-p]	0 to +50°C *3	120max	160max	200max	200max				
OUTPUT	IIII I EE[IIIVP-P]	-10 - 0℃ *3	160max	230max	260max	300max				
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	150max	190max	230max	250max				
	nirree Noise[iiivp-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 PROT	ECTION	Works over 101% of peak c	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		Requirement for external source (Option : -R, refer to Instruction Manual 5)							
	INPUT-OUTPUT · RC	*5								
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT · RC-FG	*5	The state of the s							
			-10 to +71℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE								
	VIBRATION			minutes period, 60minutes ea	ch along X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, onc							
SAFELL AND	AGENCY APPROVAL			1), EN60950-1, EN60065, EN50	178 Complies with DEN-AN and	IEC60950-1 (At only AC input)				
NOISE REGULATIONS	CONDUCTED NOISE			R22-B, EN55022-B, VCCI-B						
neduLATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2							
OTHERS	CASE SIZE/WEIGHT			x7.68 inches] (WxHxD) (wit	hout terminal block) /1.5kg m	ax				
	COOLING METHOD		Convection/Forced air			Convection/Forced air				

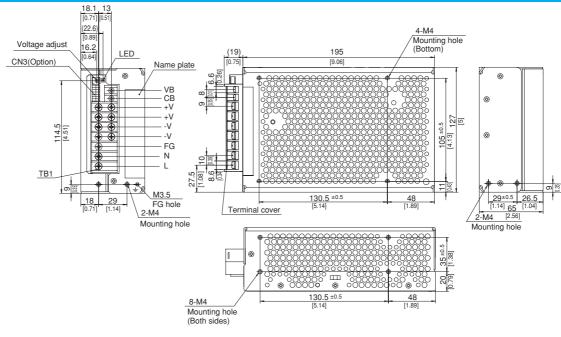
- $\textcolor{red}{*1} \ \, \text{The value is primary surge.The current of input surge to a built-in EMI/EMC Filter (0.2ms or a built-in EMI/EMC Filter$ less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring board with capacitor of 22 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.
- *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.
- *8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

ADA600F | CO\$EL

Block diagram



External view



※ Pin assigr

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



	CN3(Opti	on)
	Pin No.	Function
2 1 1	1	RC+ : Remote ON/OFF+(-R)
4 3 6 5 8 7	2	RC- : Remote ON/OFF-(-R)
8 7	3-8	NC : N.C.
12 11	9	LV+ : LV Alarm(-W)
14 13	10	LV- : LV Alarm ground(-W)
	11-12	NC : N.C.
	13	PF+ : PF Alarm(-W)
	14	PF- : PF Alarm ground(-W)

		Connector	Mating connector				
				Chain:SPHD-002T-P0.5			
CN3	S14B-PHDSS	PHDR-14VS	Loose:BPHD-001T-P0.5				
				BPHD-002T-P0.5 *1			
	*1 Patchet Hand is nothing						

Average 21A max per pin for TB1

[#] Tolerance : ±1 [±0.04]
Weight : 1.5kg max
PDB material / thickness : FR-4 / 1.6mm [0.06]
Chassis and cover material : aluminium
Dimensions in mm, []= inches
Mounting torque : 1.2N - m(12.8kgf • cm) max
Screw lighting torque
4 : 1.6N - m(16.8kgf • cm) max, M3 : 0.8N • m(8.5kgf • cm) max
1/0 terminal for option-J and -T is shown in Instruction Manual 5.

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

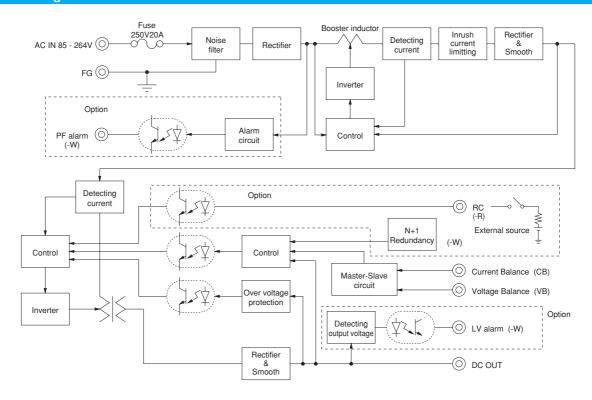
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	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48		
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 -	350 (AC64 or DC90 optional	lly available *6)			
	FREQUENCY[Hz]		50/60 (47 - 63) or DC					
	EEEIOIENOVIO/1	ACIN 100V	86typ (lo=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)		
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (Io=100%)	89typ (lo=100%)	89typ (Io=100%)		
INPUT		ACIN 100V	.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)					
	INDUCTION OF PRINTERS	ACIN 100V *1	Otyp (Io=100%) (More than 3sec.to re-start)					
	INRUSH CURRENT[A]	ACIN 200V * 1	Otyp (Io=100%) (More than 3sec.to re-start)					
	LEAKAGE CURREN	T[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		
		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[mV]	96max	120max	144max	192max		
	LOAD REGULATION	[mV]	150max	180max	240max	300max		
		0 to +50℃ *3	120max	160max	200max	200max		
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max		
		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 SET	TING[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 current and recovers automatically					
PROTECTION			31 - 34.5	40 - 48	51 - 60	64 - 76		
CIRCUIT AND	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(R	C)	Requirement for external source (Option : -R, refer to Instruction Manual 5)					
	INPUT-OUTPUT · RO	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT · RC-FG	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	<u> </u>					
	VIBRATION			minutes period, 60minutes ea	ch along X, Y and Z axis			
	IMPACT		196.1m/s ² (20G), 11ms, onc					
SAFETY AND	AGENCY APPROVAL	_S	•	•	178 Complies with DEN-AN and	d IEC60950-1 (At only AC input)		
NOISE	CONDUCTED NOISE			R22-B, EN55022-B, VCCI-B				
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2					
OTHERS	CASE SIZE/WEIGHT			×9.06 inches] (W×H×D) (with	hout terminal block) /1.9kg m	ax		
	COOLING METHOD		Convection/Forced air					

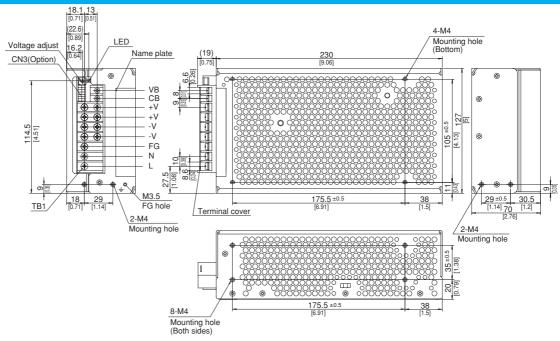
- ${\color{red} *1}$ The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring 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.
- *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.
- *8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

ADA750F | CO\$EL

Block diagram



External view



CN3(Option)

NC : N.C. : LV Alarm(-W)

: Remote ON/OFF+(-R)

LV Alarm ground(-W)

: PF Alarm(-W) : PF Alarm ground(-W)

Pin No.

10 LV-

11-12 PF+

14

0

※ Pin assign

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



- # 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.

 Connector
 Mating connector
 Terminal

 Chain:SPHD-002T-P0.5
 Chain:SPHD-002T-P0.5

 S14B-PHDSS
 PHDR-14VS
 BPHD-001T-P0.5

 BPHD-002T-P0.5
 BPHD-002T-P0.5

ADA







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.

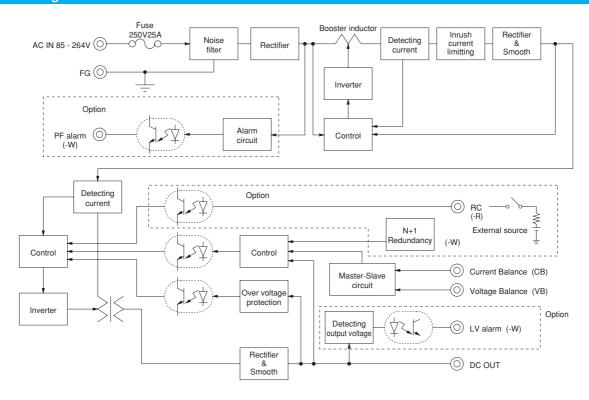
SPECIFICATIONS

	MODEL		ADA1000F-24	ADA1000F-30	ADA1000F-36	ADA1000F-48				
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 -	350 (AC64 or DC90 optiona	lly available *6)					
	FREQUENCY[Hz]		50/60 (47 - 63) or DC							
	EEEIOIENOVIO/1	ACIN 100V	86typ (lo=100%)	86typ (Io=100%)	87typ (lo=100%)	87typ (lo=100%)				
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (Io=100%)	89typ (lo=100%)	89typ (lo=100%)				
INPUT		ACIN 100V	99typ (lo=100%)							
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)							
	INIDION CURRENTIA	ACIN 100V *1	20typ (lo=100%) (More than	3sec.to re-start)						
	INRUSH CURRENT[A]	ACIN 200V * 1	Otyp (Io=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	21 (Peak 63) convection	16.5 (Peak 50) convection	14 (Peak 42) convection	10.5 (Peak 31.5) convection				
		ACIN 100V *2	33 (Peak 63) forced air	26 (Peak 50) forced air	22 (Peak 42) forced air	16.5 (Peak 31.5) forced air				
	CURRENT[A]	ACIN 200V *2	25 (Peak 83) convection	20 (Peak 66) convection	16.5 (Peak 55) convection	11.5 (Peak 41.5) convection				
		ACIN 200V *2	42 (Peak 83) forced air	33.5 (Peak 66) forced air	28 (Peak 55) forced air	21 (Peak 41.5) forced air				
	LINE REGULATION[mV]	96max	120max	144max	192max				
	LOAD REGULATION	[mV]	150max	180max	240max	300max				
		0 to +50°C *3	120max	160max	200max	200max				
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max				
		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 SET	TING[V]	23.5 - 24.5	29.0 - 31.0	35.0 - 37.0	47 - 49				
	OVERCURRENT PROT	ECTION	Works over 101% of peak current and recovers automatically							
PROTECTION	OVERVOLTAGE PROTEC	TION[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(R	-	Requirement for external source (Option : -R, refer to Instruction Manual 5)							
	INPUT-OUTPUT · RO	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)							
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT · RC-FG	*5		rent = 100mA, DC500V 50M						
	OPERATING TEMP.,HUMID.AND		9 9 9							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	<u> </u>							
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3	minutes period, 60minutes ea	ich along X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, onc							
SAFETY AND	AGENCY APPROVAL	LS	•	·	178 Complies with DEN-AN and	d IEC60950-1 (At only AC input)				
NOISE	CONDUCTED NOISE		<u> </u>	R22-B, EN55022-B, VCCI-B						
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2							
OTHERS	CASE SIZE/WEIGHT	'		×11.02 inches] (W×H×D) (w	rithout terminal block) /2.5kg i	max				
	COOLING METHOD		Convection/Forced air			Convection/Forced air				

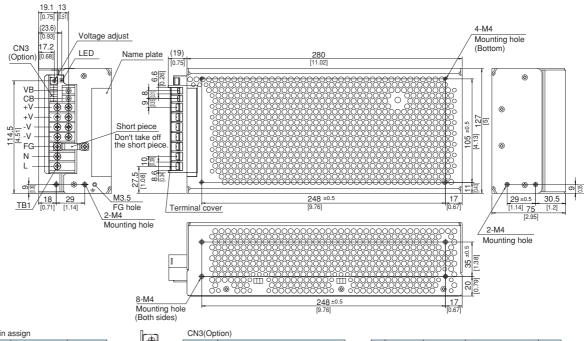
- ${\color{red} *1}$ The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring 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.
- *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.
- *8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

ADA1000F | COSEL

Block diagram



External view



Ж	Pin	assign

Symbol Function		Screw type					
VB	VB Voltage balance						
CB	Current balance	M3					
+V							
+V Output terminal(+)							
-V	Output terminal(-)	M4					
-V	1014						
FG	-V Output terminal(-) FG Frame ground						
N	N AC(N)						
L	L AC(L)						
Average 2	1A max per pin for TB	1					

Tan .	CN3(Op	tion)
	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	Mating connector	Terminal	Mfr.		
			Chain:SPHD-002T-P0.5			
CN3	S14B-PHDSS	PHDR-14VS	Loose:BPHD-001T-P0.5 BPHD-002T-P0.5*1	J.S.T		
*1 B	*1 Batchet Hand is nothing					

[#] Tolerance : ±1 [±0.04]
Weight : 2.5kg max
PCB material / thickness : FR-4 / 1.6mm [0.06]
PCB material / thickness : FR-4 / 1.6mm [0.06]
Dimensions in mm, []= inches
Mounting torque : 1.2.N • r(12.8kgf • cm) max
Screw lighting torque
1.1.8N • r(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
/ 1.6N • r(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
/ 10 terminal for option-J and -T is shown in Instruction Manual 5.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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