AC-DC Power Supplies Enclosed Type















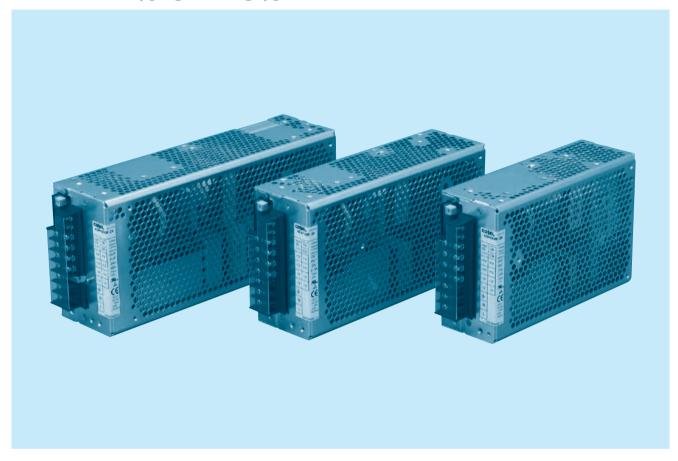








ADA-series



Feature

High power & peak power

Power up with fan (optional)

Parallel operation / master-slave operation / N+1 redundant (optional)

Harmonic attenuator (Complies with IEC61000-3-2)

Universal input voltage (AC85 - 264V)

Optional: remote ON/OFF, alarms

Current monitor

DIN rail (35mm) optional

Safety agency approvals

UL60950-1, C-UL(CSA60950-1), EN60950-1, EN62368-1, EN50178 Complies with DEN-AN

EMI

Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B

5-year warranty (refer to Instruction Manual)

Optional parts

Harness

Fan unit

Attachment

CE marking

Low Voltage Directive **RoHS** Directive

EMS Compliance : EN61204-3, EN61000-6-2

EN55022-B

EN61000-3-2

EN61000-4-2

EN61000-4-3

EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

Ordering information

ADA600F

ADA 600 F -24





Example recommended EMI/EMC filter NAC-20-472



High voltage pulse noise type : NAP series Low leakage current type : NAM 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.

- Series name
 Output wattage
 Universal input
- 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

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

*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.

SPECIFICATIONS

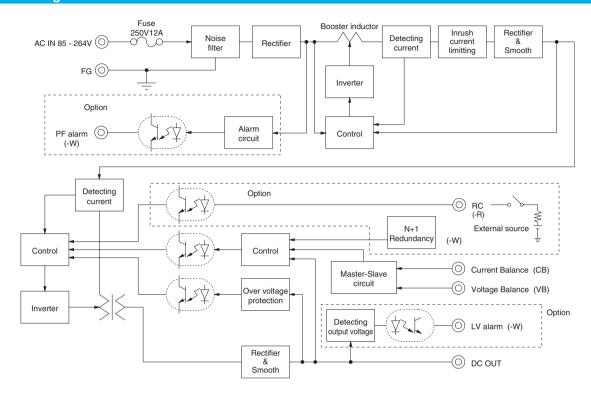
	MODEL		ADA600F-24	ADA600F-30	ADA600F-36	ADA600F-48	
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 -	- 350 (AC64 or DC90 optiona	lly available *6)		
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EEEIOJENOVIO/1	ACIN 100V	84typ (Io=100%)	86typ (Io=100%)	86typ (Io=100%)	86typ (lo=100%)	
	EFFICIENCY[%]	ACIN 200V	86typ (lo=100%)	87typ (lo=100%)	87typ (Io=100%)	89typ (lo=100%)	
INPUT		ACIN 100V	0.99typ (Io=100%)				
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)				
	INDUCUI CUPPENTIAL	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)			
	LEAKAGE CURREN		0.75max (60Hz, According to IEC62368-1 and DEN-AN) (Io=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	
		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	
	CURRENT[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[I	mV]	96max	120max	144max	192max	
	LOAD REGULATION		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℃ *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	FRANGE[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	cally		
PROTECTION	OVERVOLTAGE PROTEC	TION[V]	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 6)				
	REMOTE ON/OFF(RO	C)	Requirement for external source (Option : -R, refer to Instruction Manual 6)				
	INPUT-OUTPUT · RC	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω 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					
ENVIDONMENT.	STORAGE TEMP.,HUMID.AND	ALTITUDE					
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s ² (20G), 11ms, onc	e each X, Y and Z axis			
SAFETY AND	AGENCY APPROVAL	_S	UL60950-1, C-UL(CSA6095	0-1), EN60950-1, EN62368-1	, EN60065, EN50178 Complie	es with DEN-AN	
NOISE	CONDUCTED NOISE		Complies with FCC-B, CISP	R22-B, EN55022-B, VCCI-B			
REGULATIONS	HARMONIC ATTENU	ATOR	Complies with IEC61000-3-2	2 *8			
OTHERS	CASE SIZE/WEIGHT		65 x 127 x 195mm [2.56 x 5 x	x7.68 inches] (WxHxD) (wi	thout terminal block) /1.5kg m	ax	
OTHERS	COOLING METHOD		Convection/Forced air				

- $\textcolor{red}{\star 1} \ \ \, \text{The value is primary surge.The current of input surge to a built-in EMI/EMC Filter (0.2ms or 1.2ms)}$ less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in "Derating".
- *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.

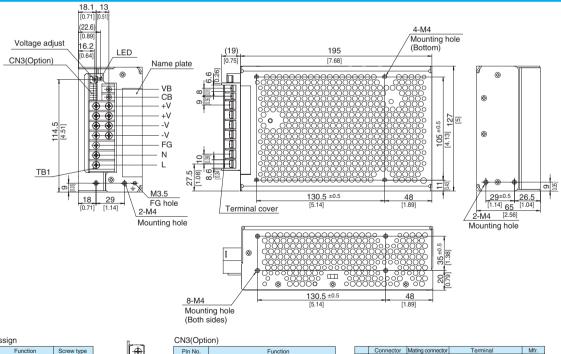
ADA-2



Block diagram



External view



*	Pin	assign

Symbol	Function	Screw type
VB	Voltage balance	M3
CB	Current balance	M3
+V	Output terminal(+)	
+V	Output terminal(+)	
 -V Output terminal(-) 		M4
-V	Output terminal(-)	IVI4
FG	Frame ground	
N	AC(N)	
L	AC(L)	
Average 2	1A max per pin for TB	

2 1 4 3 6 5 8 7 10 9 12 11 14 13 Function : Remote ON/OFF+(-R) : Remote ON/OFF-(-R) : N.C. RC-LV+ : LV Alarm(-W) : LV Alarm ground(-W) : N.C. : PF Alarm(-W) NC 13 : PF Alarm ground(-W)

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

Ordering information

ADA750F

ADA 750 F -24





Example recommended EMI/EMC filter NAC-20-472



High voltage pulse noise type : NAP series Low leakage current type : NAM 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.

- Series name
 Output wattage
 Universal input
- 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

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

*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.

SPECIFICATIONS

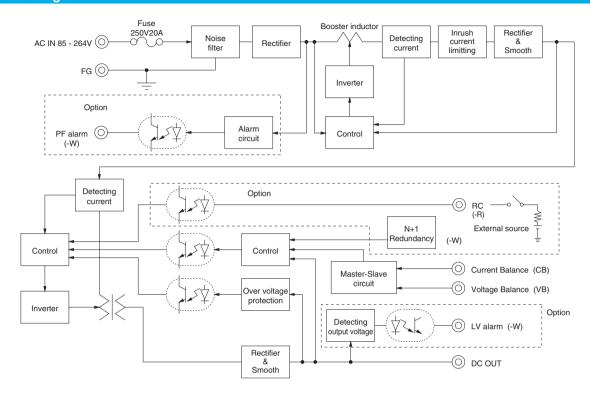
	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48			
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available *6)						
	FREQUENCY[Hz]		50/60 (47 - 63) or DC						
	EFFICIENCY[9/1	ACIN 100V	86typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)			
	EFFICIENCY[%]	ACIN 200V	88typ (Io=100%)	88typ (Io=100%)	89typ (Io=100%)	89typ (lo=100%)			
INPUT	POWER FACTOR	ACIN 100V	0.99typ (Io=100%)						
	ACIN 200V		0.98typ (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	typ (lo=100%) (More than 3sec.to re-start)					
	LEAKAGE CURRENT	T[mA]	0.75max (60Hz, According to IEC62368-1 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			
	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 m1	0 to +50℃ *3	120max	160max	200max	200max			
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max			
	DIDDLE MOIOEC W	0 to +50℃ *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 of	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 6)						
	REMOTE ON/OFF(RO	C)	Requirement for external source (Option : -R, refer to Instruction Manual 6)						
	INPUT-OUTPUT · RO	*5	The office of this indicate of the control of the c						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT · RC-FG	*5							
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71℃, 20 - 90%RH (Non condensing) (Refer to "Derating"), 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						
SAFETY AND	AGENCY APPROVAL		<u> </u>	0-1), EN60950-1, EN62368-1,	EN60065, EN50178 Complia	es with DEN-AN			
NOISE REGULATIONS	CONDUCTED NOISE			R22-B, EN55022-B, VCCI-B					
negulation5	HARMONIC ATTENU		Complies with IEC61000-3-2						
OTHERS	CASE SIZE/WEIGHT		•	x9.06 inches] (WxHxD) (with	hout terminal block) /1.9kg m	ax			
	COOLING METHOD		Convection/Forced air						

- $\pmb{*}$ 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 "Derating".
- *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. *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.

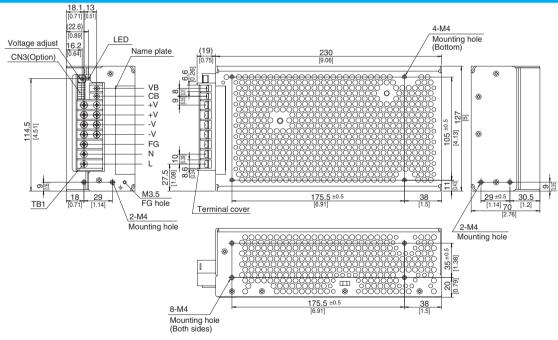
ADA-4



Block diagram



External view



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(-)	IVI4			
FG	Frame ground				
N AC(N)					
L AC(L)					

la la	CN3(Option	on)
	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 14 13	9	LV+ : LV Alarm(-W)
	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	J.S.T	
			BPHD-002T-P0.5 *1		
*1 Ratchet Hand is nothing					

 ^{**} 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 : 1.2.N • "(12.8kgf • cm) max
 ** Screw tighting torque
 ** M4 : 1.6N • "(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
 ** I/O terminal for option-J and -T is shown in Instruction Manual 6.

Ordering information

ADA1000F

ADA 1000 F -24





Example recommended EMI/EMC filter NAC-20-472



High voltage pulse noise type : NAP series Low leakage current type : NAM 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.

- Series name
 Output wattage
 Universal input
- 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

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

*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.

SPECIFICATIONS

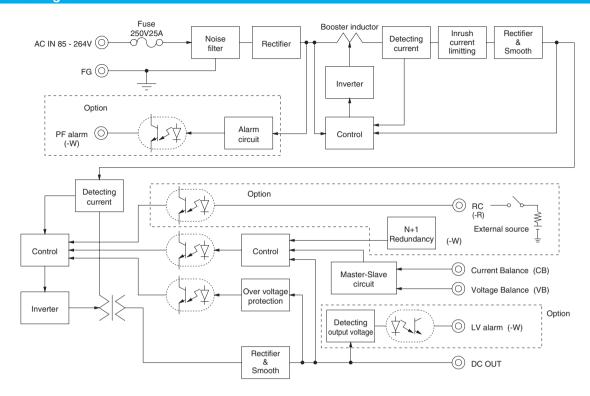
	MODEL		ADA1000F-24	ADA1000F-30	ADA1000F-36	ADA1000F-48		
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available *6)					
	FREQUENCY[Hz]		50/60 (47 - 63) or DC					
	EFFICIENCY[0/]	ACIN 100V	86typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)		
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (Io=100%)	89typ (Io=100%)	89typ (lo=100%)		
INPUT		ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR ACIN 200V		0.98typ (lo=100%)					
	INDUCU OUDDENTIAL	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)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN) (Io=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℃ *3	120max	160max	200max	200max		
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max		
		0 to +50℃ *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 - 49		
	OVERCURRENT PROT	ECTION	Works over 101% of peak of	urrent and recovers automatic	cally			
PROTECTION	OVERVOLTAGE PROTECTION[V]		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 6)					
	REMOTE ON/OFF(RO	C)	Requirement for external source (Option : -R, refer to Instruction Manual 6)					
	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 50M Ω min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to "Derating"), 3,000m (10,000feet) max					
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE						
FINA IU OIAINI EIA I	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3	minutes period, 60minutes ea	ch along X, Y and Z axis	·		
	IMPACT		196.1m/s ² (20G), 11ms, onc					
SAFETY AND	AGENCY APPROVAL	_S	UL60950-1, C-UL(CSA6095	0-1), EN60950-1, EN62368-1	, EN60065, EN50178 Compli	es with DEN-AN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, CISP	R22-B, EN55022-B, VCCI-B				
REGULATIONS	HARMONIC ATTENU	ATOR	Complies with IEC61000-3-2					
OTHERS	CASE SIZE/WEIGHT	·	75×127×280mm [2.95×5;	×11.02 inches] (W×H×D) (w	rithout terminal block) /2.5kg i	max		
OTHERS	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 "Derating".
- 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. *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.

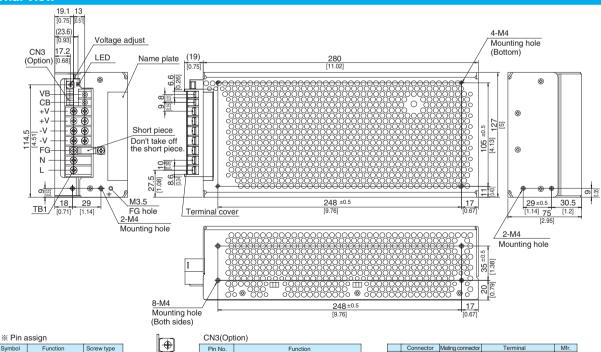
ADA-6



Block diagram



External view



Till doolgii					
Symbol	Symbol Function				
VB	Voltage balance	M3			
CB	Current balance	M3			
+V	Output terminal(+)				
+V	Output terminal(+)				
-V	Output terminal(-)	M4			
-V	Output terminal(-)	IVI4			
FG	Frame ground				

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

Average 21A max per pin for TB1

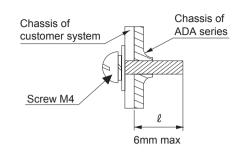
 ^{**} Tolerance : ±1 [±0.04]
 ** Weight : 2.5kg max
 ** PCB material / thickness : FR-4 / 1.6mm [0.06]
 ** Chassis and cover material : aluminium
 ** Dimensions in mm, []= inches
 ** Mounting torque : 1.2.N - n(12.8kgf • cm) max
 ** Screw tighting torque
 ** M4 : 1.6N • n(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
 ** I/O terminal for option-J and -T is shown in Instruction Manual 6.

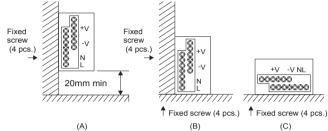
COSEL | ADA-series

Assembling and Installation Method

Installation method

- ■The screw should be inserted up to 6mm max from outside of the power supply to keep a distance between inside parts and an isolation.
- ■When two or more power supplies are used side by side, position them with proper intervals to allow enough air ventilation. Ambient temperature around each power supply should not exceed thetemperature range shown in "derating".
- ■Fix firmly, considering weight, though it can be used by the installation method shown in right figure.





Derating

■Derating by ambient temperature

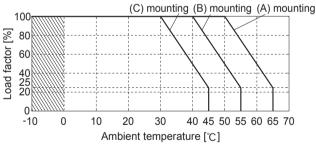
Load factor 100% in each derating curve means rating current in Specifications. Please note load factor 100% depends on input voltage and cooling method. In the hatched area the specification of Ripple, Ripple Noise is different from other area.

■Convection cooling

1) Install the unit to apply enough convection as shown in "Installation method".

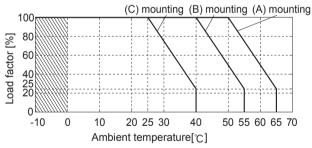
②Do not block the ventilation hole.

ADA600F Ambient temperature Derating Curve (convection cooling)



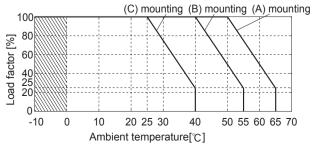
*In case of ADA600F-24, load factor 100% means output 24V, 14A at ACIN100V, 24V, 15A at ACIN200V.

ADA750F Ambient temperature Derating Curve (convection cooling)



In case of ADA750F-24, load factor 100% means output 24V, 17A at ACIN100V, 24V, 19A at ACIN200V.

ADA1000F Ambient temperature Derating Curve (convection cooling)



*In case of ADA1000F-24, load factor 100% means output 24V, 21A at ACIN100V, 24V, 25A at ACIN200V.

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Derating

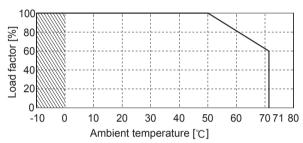
■Forced air cooling

- 1)Please give the entire power supply in ventilation so that the temperature of point A and B in right figure is made below a specified temperature. Point A and B are displayed in chassis.
 - · Point A 60C or less and point B 65C or less at Ta = 50C
 - · Point A 80C or less and point B 80C or less at Ta = 71C

Remarks: Please avoid cooling only bottom chassis.

- ②Ventilation is done evenly and do not block the ventilation hole.
- (3) The confirmation of point A and B in unnecessary when optional fun unit is used. Refer to instraction manual 6. Option.
- *The derating curve at forced air is common in ADA600F to ADA1000F.





*In case of ADA600F-24, load factor 100% means output 24V, 21A at ACIN100V, 24V, 25A at ACIN200V.

*In case of ADA750F-24, load factor 100% means output 24V, 25A at ACIN100V, 24V, 31.5A at ACIN200V.

*In case of ADA1000F-24, load factor 100% means output 24V, 33A at ACIN100V, 24V, 42A at ACIN200V.

Point-B bottom side Terminal top side Point-A block top side top side

Instruction Manual

◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual https://en.cosel.co.jp/product/powersupply/ADA/ Before using our product https://en.cosel.co.jp/technical/caution/index.html





Basic Characteristics Data

Model	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection	PCB/Pattern			Series/Parallel operation availability	
						Material	Single sided	Double sided	Series operation	Parallel operation
ADA600F	Active filter	85	5.9	250V 12A	SCR	FR-4		Yes	Yes	Yes
	Forward converter	130	(Peak 7.0)							
ADA750F	Active filter	85	6.9	250V 20A	SCR	FR-4		Yes	Yes	Yes
	Forward converter	130	(Peak11.8)							
ADA1000F	Active filter	85	9.5	250V 25A	SCR	FR-4		Yes	Yes	Yes
	Forward converter	130	(Peak18.2)							

- Refer to Instruction Manual.
- The value of input current is at ACIN 100V and rated load (peak).

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