# COSEL 科索 ADA600F-24 PDF



# 深圳创唯电子有限公司

http://www.cosel.net







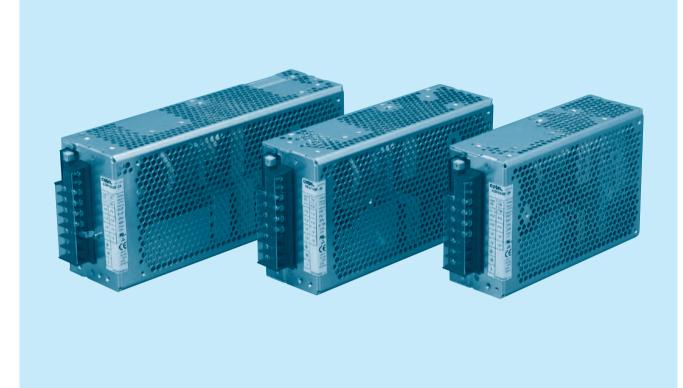




OVE



# **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

### COSEL Ordering information **AC-DC Power Supplies Enclosed Type** ADA600F ADA 600 F -24 -- (4) 2 3 1 Series name Output wattage Universal input Example recommended EMI/EMC filter NAC-20-472 Output voltage Gloppional \*7 G:Low leakage current E:Low leakage current and EMI class A **RoHS** F with Fan unit High voltage pulse noise type : NAP series Low leakage current type : NAM series T : Vertical terminal block J :Connector type C :with Coating R :Remote ON/OFF \*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. 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.

\*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 optionally available *6)								
	FREQUENCY[Hz]		50/60 (47 - 63) or DC								
INPUT		ACIN 100V	84typ (lo=100%)	86typ (lo=100%)	86typ (Io=100%)	86typ (lo=100%)					
	EFFICIENCY[%]	ACIN 200V	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	89typ (lo=100%)					
		ACIN 100V	0.99typ (lo=100%)	·	·						
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)								
		ACIN 100V * 1	20typ (Io=100%) (More that	n 3sec.to re-start)							
	INRUSH CURRENT[A]	ACIN 200V * 1	40typ (lo=100%) (More that	n 3sec.to re-start)							
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN) (Io=100%)								
	VOLTAGE[V]		24	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 ai					
	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 ai					
	LINE REGULATION[mV]		96max	120max	144max	192max					
	LOAD REGULATION	[mV]	150max	180max	240max	300max					
Ουτρυτ	RIPPLE[mVp-p]	0 to +50℃ *3	120max	160max	200max	200max					
		-10 - 0°C *3	160max	230max	260max	300max					
		0 to +50℃ *3	150max	190max	230max	250max					
	RIPPLE NOISE[mVp-p]	-10 - 0°C *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					
			Works over 101% of peak current and recovers automatically								
PROTECTION	OVERVOLTAGE PROTECTION[V]		31 - 34.5	40 - 48	51 - 60	64 - 76					
IRCUIT AND	OPERATING INDICATION		LED (Green)								
THERS	ALARM OUTPUT		Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 6)								
	REMOTE ON/OFF(RC)		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)								
SOLATION	INPUT-FG		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	OUTPUT · RC-FG *5		<sup>5</sup> AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ 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								
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max								
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (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								
AFETY AND	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN62368-1, EN60065, EN50178 Complies with DEN-AN								
IOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B								
EGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8								
	CASE SIZE/WEIGHT		65 x 127 x 195mm [2.56 x 5 x 7.68 inches] (W x H x D) (without terminal block) /1.5kg 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.
\*2 Peak loading for 10sec And Duty 35% max. Befer to Instruction Manual 4 Forced air is shown

\*2 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.

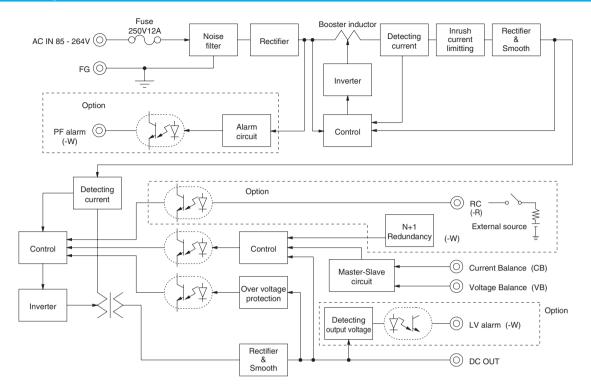
\*7 Please contact us about safety approvals for the model with option.

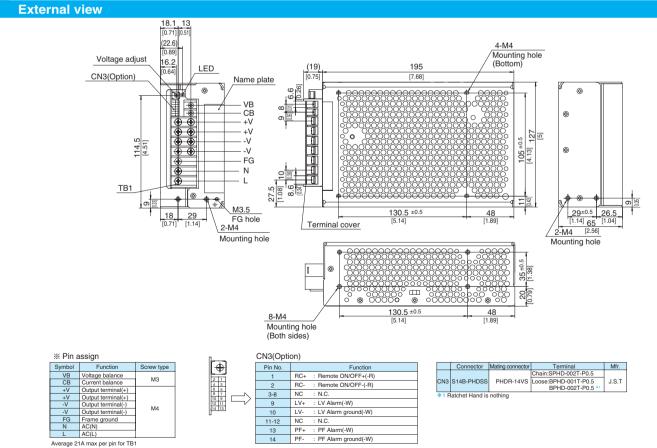
\*8 Please contact us about class C.

A sound may occur from power supply at pulse loading.

# ADA600F | COSEL







\*\* Tolerance : ±1 [±0.04]
\*\* Velght: 1.5kg max
PCB material / thickness : FR-4 / 1.6mm [0.06]
\*\* Chassis and cover material : aluminium
\*\* Dimensions in mm. [ ]= inches
\*\* Mounting forque : 1.2N • m[12.8kg1 • cm) max
\*\* Screw tighting forque
M4 : 1.6N • m(16.8kg1 • cm) max, M3 : 0.8N • m(8.5kg1 • cm) max
\*\* U0 terminal for option-J and -T is shown in Instruction Manual 6.

COSEL Ordering information **AC-DC Power Supplies Enclosed Type ADA750F** ADA 750 F -24 -1 Series name
 Output wattage
 Universal input Example recommended EMI/EMC filter Output voltage Optional \*7
 G:Low leakage current
 E:Low leakage current **RoHS** and EMI class A F with Fan unit High voltage pulse noise type : NAP series Low leakage current type : NAM series T : Vertical terminal block J :Connector type C :with Coating R :Remote ON/OFF \*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. 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.

\*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								
INPUT		ACIN 100V	86typ (lo=100%)	86typ (Io=100%)	87typ (lo=100%)	87typ (lo=100%)					
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)					
		ACIN 100V	0.99typ (lo=100%)								
	POWER FACTOR	ACIN 200V	/ 0.98typ (lo=100%)								
		ACIN 100V * 1	20typ (lo=100%) (More than	1 3sec.to re-start)							
	INRUSH CURRENT[A]		40typ (Io=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	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 at					
	LINE REGULATION	mV1	96max	120max	144max	192max					
	LOAD REGULATION	-	150max	180max	240max	300max					
ουτρυτ		0 to +50°C *3	120max	160max	200max	200max					
		-10 - 0°C *3	160max	230max	260max	300max					
•••••		0 to +50°C *3	150max	190max	230max	250max					
	RIPPLE NOISE[mVp-p]	-10 - 0°C *3	180max	250max	280max	400max					
	TEMPERATURE REGULATION[mV]		240max	300max	360max	480max					
	DRIFT[mV] *4		96max	120max	144max	192max					
	START-UP TIME[ms]		500max (ACIN 100V, Io=10			TOEINAX					
	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					
			Works over 101% of peak current and recovers automatically								
	OVERVOLTAGE PROTECTION[V]		31 - 34.5	40 - 48	51 - 60	64 - 76					
ROTECTION			LED (Green)								
THERS	ALARM OUTPUT		Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 6)								
-	REMOTE ON/OFF(RC)		Requirement for external source (Option : -R, refer to Instruction Manual 6)								
			<sup>5</sup> AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)								
OCLAHON	OUTPUT · RC-FG *5										
			-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to "Derating"), 3,000m (10,000feet) max								
	STORAGE TEMP.,HUMID.AND ALTITUDE										
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis								
	IMPACT		196.1 $m/s^2$ (20G), 11ms, once each X, Y and Z axis								
	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN62368-1, EN60065, EN50178 Complies with DEN-AN								
AFETY AND	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B								
EGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8								
	CASE SIZE/WEIGHT		70 x 127 x 230mm [2.76 x 5 x 9.06 inches] (W x H x D) (without terminal block) /1.9kg 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.
\*2 Peak loading for 10sec And Duty 35% max Refer to Instruction Manual 4 Forced air is shown

\*2 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.

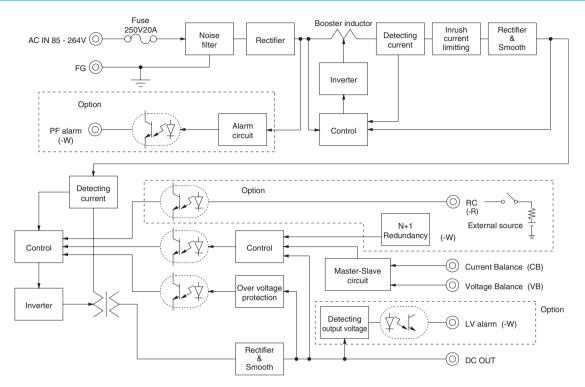
\*6 Derating is required.Consult us for details.

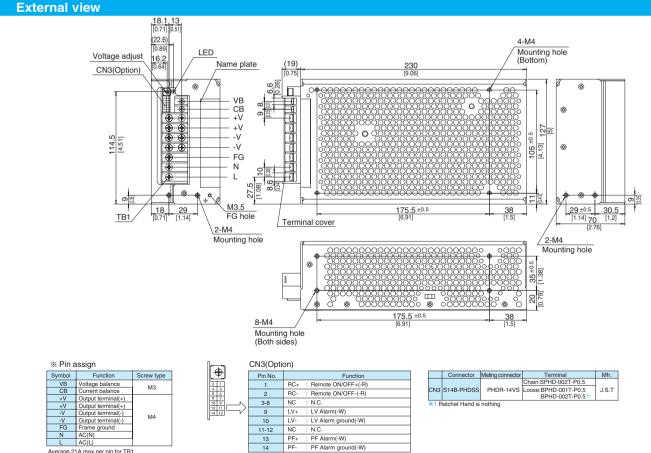
- \*8 Please contact us about class C.
- \* A sound may occur from power supply at pulse loading

<sup>\*7</sup> Please contact us about safety approvals for the model with option.









Average 21A max per pin for TB1

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 • m(12.8kgf · cm) max
Screw lighting torque
M4 : 1.6N • m(16.9kgf · cm) max, M3 : 0.8N • m(8.5kgf • cm) max
½ to terminal for option-J and -T is shown in Instruction Manual 6.

### COSEL Ordering information **AC-DC Power Supplies Enclosed Type ADA1000F** ADA 1000 F -24 -• 3 1 Series name Output wattage Universal input Example recommended EMI/EMC filter NAC-20-472 Output voltage Gloppional \*7 G:Low leakage current E:Low leakage current and EMI class A **RoHS** F with Fan unit High voltage pulse noise type : NAP series Low leakage current type : NAM series T : Vertical terminal block J :Connector type C :with Coating R :Remote ON/OFF \*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. N1:DIN rail W:Alarms and Redundant

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								
INPUT		ACIN 100V	86typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)					
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)					
		ACIN 100V	0.99typ (lo=100%)								
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)								
		ACIN 100V * 1	20typ (Io=100%) (More than	3sec.to re-start)							
	INRUSH CURRENT[A]		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						
		ACIN 100V *2	21 (Peak 63) convection	16.5 (Peak 50) convection	14 (Peak 42) convection	10.5 (Peak 31.5) convectio					
		ACIN 100V *2	33 (Peak 63) forced air	26 (Peak 50) forced air	22 (Peak 42) forced air	16.5 (Peak 31.5) forced ai					
	CURRENT[A]	ACIN 200V *2	25 (Peak 83) convection	20 (Peak 66) convection	16.5 (Peak 55) convection	11.5 (Peak 41.5) convectio					
		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					
Ουτρυτ		-10 - 0°C *3	160max	230max	260max	300max					
		0 to +50℃ *3	150max	190max	230max	250max					
	RIPPLE NOISE[mVp-p]	-10 - 0°C *3	180max	250max	280max	400max					
	TEMPERATURE REGULATION(mV) 0 to +50°C		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					
			Works over 101% of peak current and recovers automatically								
PROTECTION	OVERVOLTAGE PROTECTION[V]		31 - 34.5	40 - 48	51 - 60	64 - 76					
RCUIT AND	OPERATING INDICA	TION	LED (Green)								
DTHERS	ALARM OUTPUT		Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 6)								
	REMOTE ON/OFF(R	C)	Requirement for external source (Option : -R, refer to Instruction Manual 6)								
	INPUT-OUTPUT · RO	*5	$^{6}$ AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)								
SOLATION	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										
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (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								
AFETY AND	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN62368-1, EN60065, EN50178 Complies with DEN-AN								
IOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B								
EGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8								
	CASE SIZE/WEIGHT		75 x 127 x 280mm [2.95 x 5 x 11.02 inches] (W x H x D) (without terminal block) /2.5kg 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.
\*2 Peak loading for 10sec. And Duty 35% max. Refer to Instruction Manual 4.Forced air is shown

\*2 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.

operation Specification is changed at option,refer to Instruction

Manual.

\*5 Applicable when remote control (optional) is added.

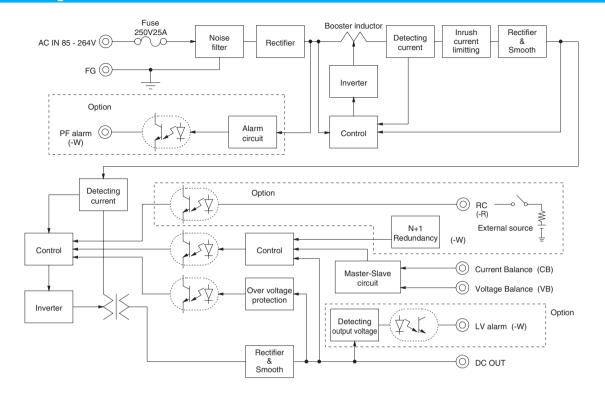
\*6 Derating is required.Consult us for details.

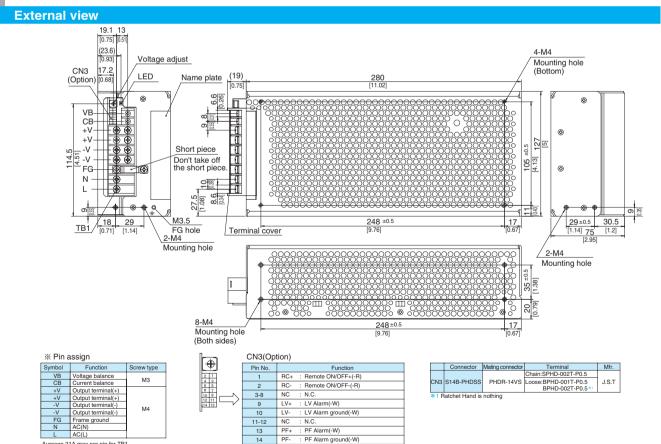
- \*8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

<sup>\*7</sup> Please contact us about safety approvals for the model with option.



### **Block diagram**





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 • m(12:8kgf · cm) max
\*\* Screw tighting torque
M4 : 1.6N • m(16:8kgf · cm) max, M3 : 0.8N • m(8.5kgf • cm) max
\*\* Uo terminal for option-J and -T is shown in Instruction Manual 6.

: PF Alarm ground(-W)

PF-14

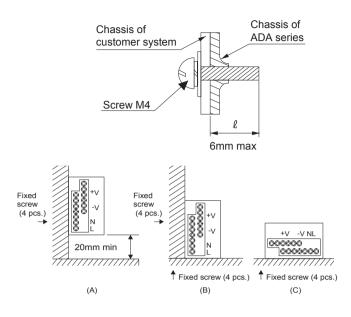
ADA-7

# **COŞEL** | 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

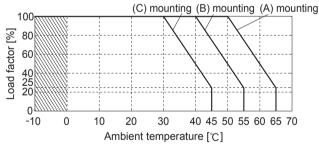
Load factor 100% in each derating curve means rating current in Specifications. Please note load factor 100% depends on input voltage and cooling method. In the hatched area the specification of Ripple, Ripple Noise is different from other area.

Convection cooling

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

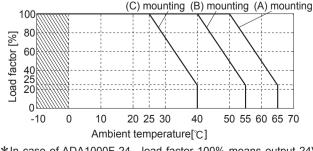
②Do not block the ventilation hole.

### ADA600F Ambient temperature Derating Curve (convection cooling)



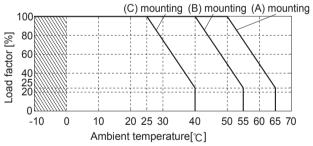
\*In case of ADA600F-24, load factor 100% means output 24V, 14A at ACIN100V, 24V, 15A at ACIN200V.

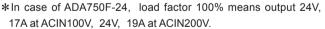
### ADA1000F Ambient temperature Derating Curve (convection cooling)



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

### ADA750F Ambient temperature Derating Curve (convection cooling)





## ADA-series

air

top side

+V

-V

Point-B

Terminal

+v

-V

block

air



top side Point-A

bottom side

top side

### Derating

Forced air cooling

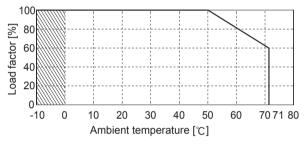
- ①Please give the entire power supply in ventilation so that the temperature of point A and B in right figure is made below a specified temperature. Point A and B are displayed in chassis.
  - Point A 60C or less and point B 65C or less at Ta = 50C
  - · Point A 80C or less and point B 80C or less at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

(2) Ventilation 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.

### AD600F-1000F Ambient temperature Derating Curve (forced air)



\*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.

### **Instruction Manual**

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

Instruction Manual Before using our product https://en.cosel.co.jp/product/powersupply/ADA/ 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).