**RoHS** 

ADA600F





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**

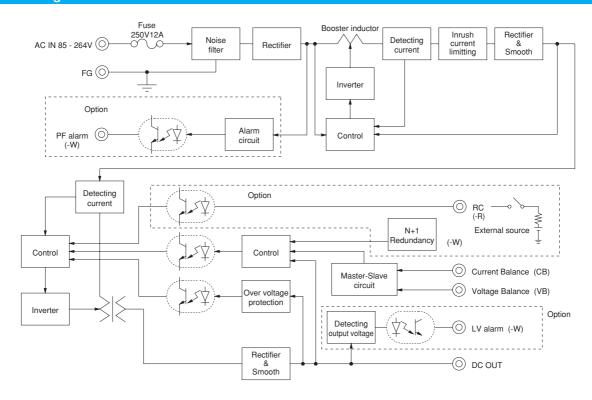
c Sus Like CE

	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					
	EEEIOIENOVIO/1	ACIN 100V	84typ (lo=100%)	86typ (Io=100%)	86typ (lo=100%)	86typ (Io=100%)		
	EFFICIENCY[%]	ACIN 200V	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	89typ (Io=100%)		
INPUT		ACIN 100V	0.99typ (lo=100%)					
	POWER FACTOR ACIN 2		0.98typ (lo=100%)					
	INDUCTION OF PRINTERS	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 CURREN	T[mA]	0.75max (60Hz, According to	o IEC60950 and DEN-AN) (Id	p=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[	mV]	96max	120max	144max	192max		
	LOAD REGULATION	[mV]	150max	180max	240max	300max		
	DIDDI Elmilia al	0 to +50°C *3	120max	160max	200max	200max		
OUTPUT	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	230max	260max	300max		
	DIDDLE NOISE	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%)					
			21.6 - 27.0	27.0 - 33.0	33.0 - 41.0	41.0 - 52.8		
			23.5 - 24.5	29.0 - 31.0	35.0 - 37.0	47.0 - 49.0		
			Works over 101% of peak of	urrent and recovers automatic	cally			
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		Requirement for external source (Option : -R, refer to Instruction Manual 5)					
	INPUT-OUTPUT · RO	*5	The system of the state of the					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)					
	OUTPUT · RC-FG	*5			$\Omega$ min (At Room Temperature			
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	0					
	VIBRATION			minutes period, 60minutes ea	ach along X, Y and Z axis			
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, onc					
SAFETY AND	AGENCY APPROVAL	_S	•	•	178 Complies with DEN-AN and	I 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			$\times$ 7.68 inches] (W $\times$ H $\times$ D) (with	thout terminal block) /1.5kg m	ax		
	COOLING METHOD		Convection/Forced air					

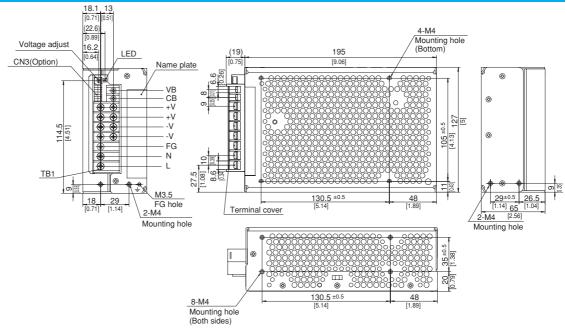
- ${\color{red} *1}$  The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- \*3 This is the value that measured on measuring 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.

# ADA600F | CO\$EL

# **Block diagram**



## **External view**



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

<b>-</b>	CN3(Opti	on)
[ <del> </del>	Pin No.	Function
211	1	RC+ : Remote ON/OFF+(-R)
4 3	2	RC- : Remote ON/OFF-(-R)
6 5 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)



Average 21A max per pin for TB1

<sup>#</sup> 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** 

ADA750F





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**

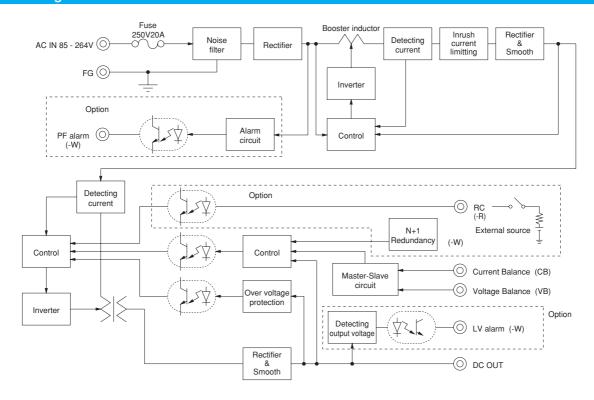
c Sus Like CE

	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48	
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 -	350 (AC64 or DC90 optional	ly available *6)		
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[0/]	ACIN 100V	86typ (lo=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)	
	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)	
INPUT		ACIN 100V	0.99typ (lo=100%)	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , ,	
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)				
	ACIN 100V		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	T[mA]	0.75max (60Hz, According to	o 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	
	LINE REGULATION[	mV]	96max	120max	144max	192max	
	LOAD REGULATION	I[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]	1	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 cu	urrent and recovers automatic	ally		
PROTECTION	OVERVOLTAGE PROTEC	CTION[V]	31 - 34.5	40 - 48	51 - 60	64 - 76	
CIRCUIT AND	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(R	C)	Requirement for external source (Option : -R, refer to Instruction Manual 5)				
	INPUT-OUTPUT · RO	*5	AC3,000V 1minute, Cutoff co	urrent = 10mA, DC500V 50M	$\Omega$ min (At Room Temperature	e)	
ISOLATION	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 50MΩ min (At Room Temperature)				
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
EINVIRONNIEN I	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3r	minutes period, 60minutes ea	ch along X, Y and Z axis		
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, onc	e each X, Y and Z axis			
SAFETY AND	AGENCY APPROVAL	LS	UL60950-1, C-UL(CSA60950-1	), EN60950-1, EN60065, EN50	178 Complies with DEN-AN and	IEC60950-1 (At only AC input	
NOISE	CONDUCTED NOISE	<b>.</b>	Complies with FCC-B, CISP	R22-B, EN55022-B, VCCI-B			
REGULATIONS	HARMONIC ATTENU	JATOR	Complies with IEC61000-3-2	*8			
OTHERS	CASE SIZE/WEIGHT		70 x 127 x 230mm [2.76 x 5 >	<9.06 inches] (WxHxD) (with the control of the c	hout terminal block) /1.9kg m	ax	
OTHERS	COOLING METHOD		Convection/Forced air				

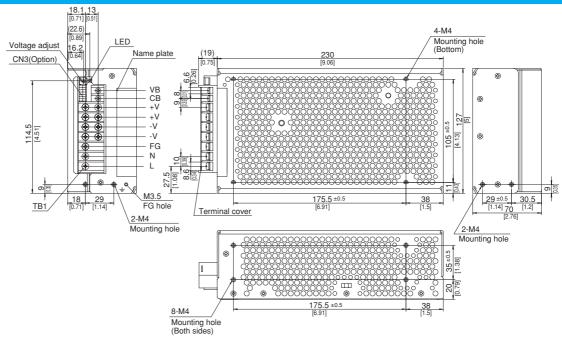
- $\textcolor{red}{*1} \ \, \text{The value is primary surge.The current of input surge to a built-in EMI/EMC Filter (0.2ms or a built-in EMI/EMC Filter$ less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- \*3 This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



### ※ 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(-)	IVI4	
FG			
N	AC(N)		
L	AC(L)		



		Connector	Ivialing connector	reminai	IVIII.	
	CN3			Chain:SPHD-002T-P0.5		
		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 : 1.2h "(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

**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.

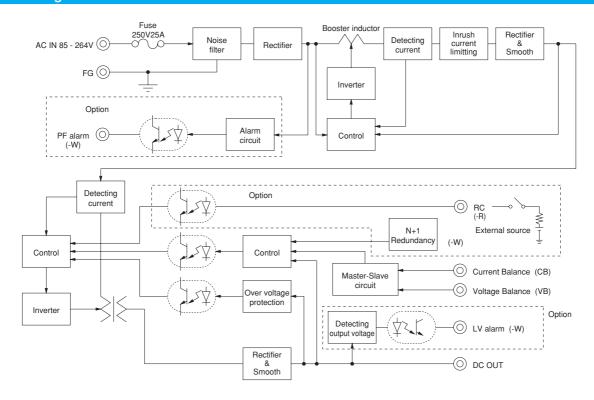
# **SPECIFICATIONS**

	MODEL		ADA1000F-24	ADA1000F-30	ADA1000F-36	ADA1000F-48		
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available *6)					
	FREQUENCY[Hz]		50/60 (47 - 63) or DC					
	EFFICIENCY[0/]	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	0.99typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)					
	INIBIIOU OUBBENETAL	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[I	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℃ *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 - 49		
	OVERCURRENT PROT	ECTION	Works over 101% of peak of	urrent and recovers automatic	ally			
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(RO	-		urce (Option : -R, refer to Inst	· · · · · · · · · · · · · · · · · · ·			
	INPUT-OUTPUT · RO	*5		urrent = 10mA, DC500V 50M				
ISOLATION	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	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
LIVIIIONWLIVI	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3	minutes period, 60minutes ea	ich along X, Y and Z axis			
	IMPACT		196.1m/s <sup>2</sup> (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			×11.02 inches] (W×H×D) (w	rithout terminal block) /2.5kg ı	max		
	COOLING METHOD		Convection/Forced air					

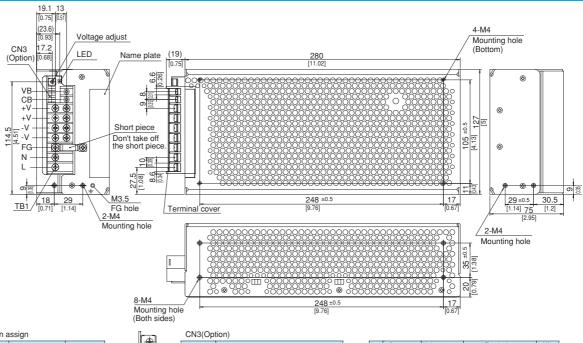
- ${\color{red} *1}$  The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- \*3 This is the value that measured on measuring 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.

# ADA1000F | CO\$EL

# **Block diagram**



# **External view**



Ж	Pin	assign

Symbol	Function	Screw type	
VB	Voltage balance	M3	
CB	Current balance	IVIS	
+V	Output terminal(+)		
+V	Output terminal(+)		
<ul> <li>-V Output terminal(-)</li> </ul>		M4	
-V	Output terminal(-)	IVI4	
FG	Frame ground		
N AC(N)			
L			
Average 21A max per pin for TB1			

ı	Tan .	CN3(Ob	tion)
2 1 4 3 6 5		Pin No.	Function
	2 1	1	RC+ : Remote ON/OFF+(-R)
	6 5	2	RC- : Remote ON/OFF-(-R)
ı	10 9	3-8	NC : N.C.
12	12 11 14 13	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)

PHDR-14VS Loose:BPHD-001T-P0.5 BPHD-002T-P0.5 J.S.T CN3 S14B-PHDSS \*1 Ratchet Hand is nothing

<sup>#</sup> 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.