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

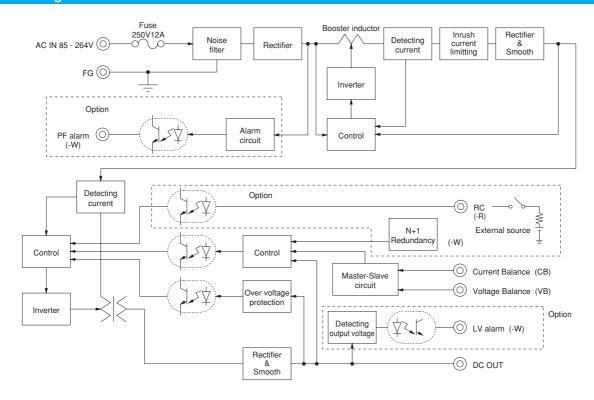
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	MODEL		ADA600F-24	ADA600F-30	ADA600F-36	ADA600F-48	
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 -	- 350 (AC64 or DC90 optiona	lly available *6)		
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[0/]	ACIN 100V	84typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)	86typ (lo=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 200V	0.98typ (lo=100%)				
	INRUSH CURRENT[A]	ACIN 100V *1	20typ (lo=100%) (More than 3sec.to re-start)				
		ACIN 200V * 1	40typ (Io=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (Io=100%)				
	VOLTAGE[V]		24	30	36	48	
	CURRENT[A]	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	
		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 MOIOETV1	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, 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	
PROTECTION CIRCUIT AND OTHERS			Works over 101% of peak current and recovers automatically				
			31 - 34.5	40 - 48	51 - 60	64 - 76	
	OPERATING INDICATION		LED (Green)				
	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		The system of the state of the				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG *5		7.0000 Timilato, Catan Canoni Tomas, 20000 Comag Timilato, Catana				
	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		0				
-	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
NOISE	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)				
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8				
OTHERS	CASE SIZE/WEIGHT		65×127×195mm [2.56×5×7.68 inches] (W×H×D) (without terminal block) /1.5kg max				
	COOLING METHOD		Convection/Forced air				

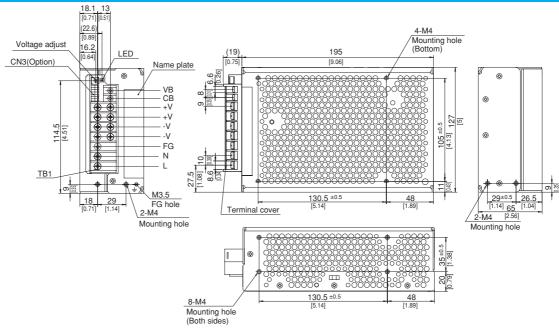
- ${\color{red} *1}$ The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring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

ADA600F | CO\$EL

Block diagram



External view



Symbol	Function	Screw type		
VB	Voltage balance M3			
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)			
Average 21A max per pin for TB1				



-	CN3(Option)					
	Pin No.	Function				
2 1	1	RC+ : Remote ON/OFF+(-R)				
4 3	2	RC- : Remote ON/OFF-(-R)				
6 5 8 7 10 9	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)				

PHDR-14VS

Terminal Chain:SPHD-002T-P0.5 Loose:BPHD-001T-P0.5 BPHD-002T-P0.5

[#] 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.