ADA1000F

Ordering information

ADA 1000 F -24

ADA

c**71**°us △ (€ **RoHS**



Recommended Noise Filter NAC-20-472

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

- ①Series name ②Output wattage ③Universal input ④Output voltage

- (5)Optional
 G:Low leakage current
 E:Low leakage current
 - and EMI class A F :with Fan unit(only -24)
 - :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

RoHS: Please consult us for details

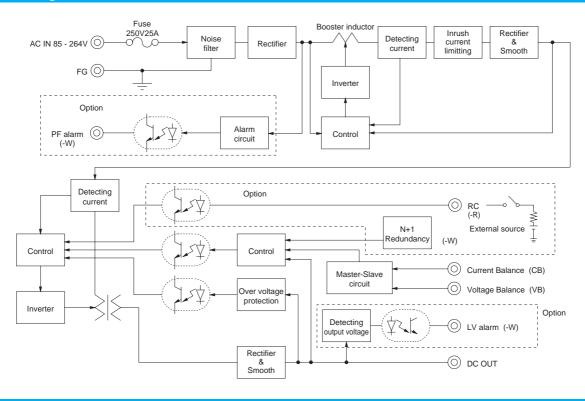
Please refer to derating curve, because the rated load current depends on cooling method that is convention cooling or forced air.

SPECIFICATIONS

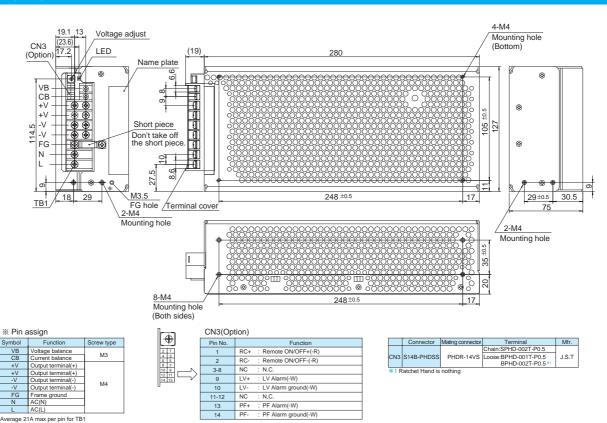
	MODEL		ADA1000F-24	ADA1000F-30	ADA1000F-36	ADA1000F-48
	VOLTAGE[V]		AC85 - 264 1 φ or DC 120 - 350 (AC64 or DC90 optionally available * 6)			
	FREQUENCY[Hz]		50/60 (47 - 63) or DC			
	EFFICIENCY[%]	ACIN 100V	86typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)
		ACIN 200V	88typ (Io=100%)	88typ (Io=100%)	89typ (Io=100%)	89typ (Io=100%)
	DOWED FACTOR	ACIN 100V	0.99typ (lo=100%)			
	POWER FACTOR	ACIN 200V	0.98typ (lo=100%)			
	INDUCU CUDDENTIAL	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 IEC60950 and DEN-AN) (Io=100%)			
	VOLTAGE[V]		24	30	36	48
	CURRENT[A]	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
		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
	RIPPLE[mVp-p]	0 to +50°C *3	120max	160max	200max	200max
		-10 - 0℃ *3	160max	230max	260max	300max
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	150max	190max	230max	250max
		-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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 101% of peak current and recovers automatically			
	OVERVOLTAGE PROTECTION[V]		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)			
ISOLATION	INPUT-OUTPUT · RC *5		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
	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)			
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max			
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max			
	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			
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)			
	OONDOOTED NOIDE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B			
			Low Voltage Directive, EMC Directive			
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2			
OTHERS			75×127×280mm (W×H×D) (without terminal block) /2.5kg max			
OTHERS	CASE SIZE/WEIGHT		Convection/Forced air	D) (Without terminal block) /2.	ong max	

- *1 The value is primary surge. The current of input surge to a built-in noise filter (0.2ms or less) is
- *2 Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- 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).
- 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.
- A sound may occur from power supply at pulse loading.

Block diagram



External view



- ** Tolerance : ±1

 ** Weight : 2.5 kg max

 ** PCB material thickness : FR-4 / 1.6 mm

 **Chassis and cover material : aluminium

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 **Expension in mm

 **Mounting torque : 1.2N m(12.8 kg cm) max

 **Screw lighting torque

 **M4 : 1.6N m(16.8 kg cm) max , M3 : 0.8N m(8.5 kg cm) max

 #U0 terminal for option-J and -T is shown in Instruction Manual 5.