# **PJA1500F**

1500



Example recommended EMI/EMC filter NAC-20-472

- (1) Series name
  (2) Single output
  (3) Output wattage
  (4) Universal input
  (5) Output voltage
  (6) Optional \*7
  (C: with Coating
  G: Low leakage current
  V: External potentiometer for output voltage adjustment
  W: Parrallel operation,
  LV alarm Remote sensing
  R: Remote on/off
  (Required external) power source
- R: Hemote on/off
  (Required external power source
  or Option Z

  : AUX Output
  Z1: 5V
  Z2: 12V
  - Z3:24V

See 5.1 in Instruction Manual.

\*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		PJA1500F-24	PJA1500F-48	
VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115	V. See 1.1 and 3.2 in Instruction Manual) *4	
	ACIN 100V	18typ (lo=90%)		
CURRENT[A]	ACIN 115V	16typ (Io=100%)		
	ACIN 230V			
FREQUENCY[Hz]	,			
	ACIN 100V	84typ (lo=90%)	84typ (Io=90%)	
EFFICIENCY[%]	ACIN 115V	85typ (lo=100%)	84typ (Io=100%)	
	ACIN 230V	88typ (lo=100%)	87typ (Io=100%)	
	ACIN 100V			
POWER FACTOR	ACIN 115V			
	ACIN 230V			
		15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
INBUSH CURRENTIAL		15/30typ (lo=30%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
introon connecting		30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
		1.5max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
			48	
· OLINGE[V]	ACIN 85-115V		1.15	
CURRENT[A]		, ,	32	
	+		1 -	
WATTAGE[W]		, , ,	1536	
LINE REGULATION[n LOAD REGULATION[ RIPPLE[mVp-p]				
			192max	
	<del>-</del> -		300max	
			200max	
			500max	
RIPPLE NOISE[mVp-p]			300max	
*1			600max	
TEMPERATURE REGULATION ImV			480max	
			600max	
	*2		192max	
		7		
		7		
			40.80 to 55.20	
<del> </del>			48.00 to 49.92	
OVERCURRENT PROTECTION		,		
OVERVOLTAGE PROTECTION[V] OPERATING INDICATION			57.00 to 67.20	
OTHERS AUXILIARY OUTPUT		Optional (Option -Z )		
REMOTE SENSING		Optional (Option -W)		
REMOTE ON/OFF		Optional (Option -R) Required external power source or auxiliary output (Option -Z ).		
INPUT-OUTPUT • RC INPUT-FG	*3	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
OUTPUT • RC-FG OUTPUT-RC		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)		
		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)		
OPERATING TEMP., HUMID. AND	ALTITUDE *5	-20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
STORAGE TEMP., HUMID. AND	ALTITUDE			
VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axes		
IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axes		
AGENCY APPROVALS		UL62368-1, C-UL (CSA62368-1), EN62368-1, Complies with DEN-AN		
AGENCY APPROVAL	S	UL62368-1, C-UL (CSA62368-1), EN62368-1, Complies wit	n DEN-AN	
AGENCY APPROVAL CONDUCTED NOISE	S		n DEN-AN , EN55022-A, additional EMI/EMC Filter required for meeting class B	
-	CURRENT[A]  FREQUENCY[Hz]  EFFICIENCY[%]  POWER FACTOR  INRUSH CURRENT[A]  LEAKAGE CURRENT VOLTAGE[V]  CURRENT[A]  WATTAGE[W]  LINE REGULATION[R LOAD REGULATION[RV]  PRIPPLE NOISE[MVP-P]  **  TEMPERATURE REGULATION[MV]  DRIFT[mV]  START-UP TIME[ms] OUTPUT VOLTAGE ADJUSTME! OVERCURRENT PROTIC OPERATING INDICAT AUXILIARY OUTPUT OPERATING INDICAT AUXILIARY OUTPUT REMOTE SENSING REMOTE ON/OFF INPUT-OUTPUT RC INPUT-FG OUTPUT-RC OPERATING TEMP,HUMID.AND STORAGE TEMP,HUMID.AND	VOLTAGE[V]	VOLTAGE[V]	



### **SPECIFICATIONS**

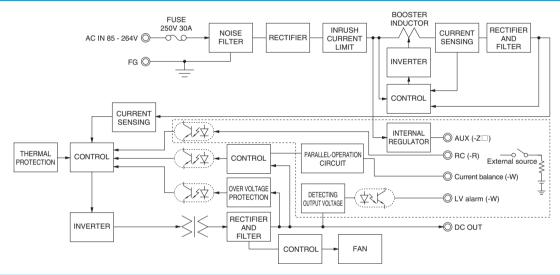
OTHERS	CASE SIZE/WEIGHT 178 × 61 × 268mm [7.01 × 2.40 × 10.55 inches] (Excluding terminal block and screw) (W × H × D) / 3.5kg max	
	COOLING METHOD *9	Forced cooling (internal fan)
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

- This is the result of measurement of the testing board with capacitors of 22  $\mu$  F and 0.1  $\mu$  F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103
- See 1.6 of Instruction Manual for more details. Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 °C.
- The BC/AUX terminal are added to option -B/-Z models. The BC/AUX
- terminals are isolated from input, output, and FG. Output power derating is required.
- Output power derating is required. See 3.2 in Instruction Manual. See 3.3 in Instruction Manual for more details.
- Consult us about safety agency approvals for the models with optional functions \*8 Consult us about dynamic load and input response.
- The fan speed slows down or stops at no load.
- 10 Consult us about other classes.
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged. Parallel operation is allowed for PLA1500F models with the –W option only.
- Sound noise may be heard from the power supply when used for pulse load.

#### **Features**

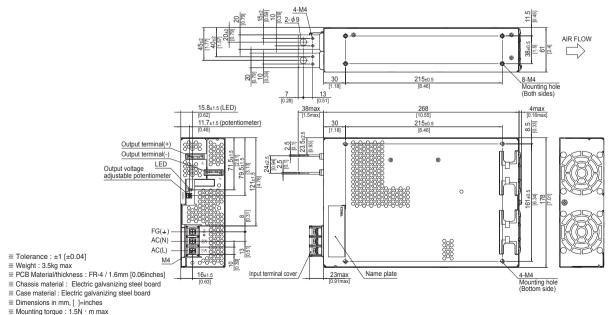
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 2U height = 61 mm or 2.4 inches)
- · Wide operating temperature range (-20°C to +70°C see instruction manual)
- · Stop or slow fan speed at no load
- · Many optional functions

## **Block diagram**



## **External view**

The external size of –V option, –W option, –R option, and –Z□ option is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



※ Screw tightening torque: 1.6N ⋅ m max Output terminal M4 tightening torque: 1.2N · m max
 Connect the input FG to safety earth ground.