## Ordering information

# **PJA1000F**

PJ A 1000 F -



①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage

\*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		PJA1000F-24	PJA1000F-48	
INPUT	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual)		
	OUDDENTIAL	ACIN 100V			
	CURRENT[A]	ACIN 115V	- 21: ( )		
	ACIN 230V				
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	84typ (lo=90%)	84typ (lo=90%)	
		ACIN 115V	85typ (lo=100%)	85typ (lo=100%)	
		ACIN 230V	88typ (lo=100%)	88typ (lo=100%)	
	POWER FACTOR	ACIN 100V	0.98typ (lo=90%)		
		ACIN 115V	0.98typ (lo=100%)		
		ACIN 230V	0.95typ (lo=100%)		
	INRUSH CURRENT[A]	ACIN 100V	15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
		ACIN 115V	15/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
		ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)		
	LEAKAGE CURRENT[mA]		1.5max (ACIN 240V, 60Hz, Io=100%, According to IEC6236	,	
	VOLTAGE[V]		24	48	
	CURRENT[A]  WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to in:	,	
ОИТРИТ		ACIN 115V-264V	42	21	
		ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to in:	· · · · · · · · · · · · · · · · · · ·	
		ACIN 115V-264V		1008	
	LINE REGULATION[mV] *2		96max	192max	
	LOAD REGULATION		150max	300max	
	RIPPLE[mVp-p]	0 to +50℃		200max	
	RIPPLE NOISE[mVp-p]  *1  TEMPERATURE REGULATION[mV]	-20 to 0°C		500max	
		0 to +50℃	150max	300max	
		-20 to 0℃	180max	600max	
			240max	480max	
		-20 to +50°C	290max	600max	
	DRIFT[mV] *3		96max	192max	
	START-UP TIME[ms]		800typ (ACIN 115V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			40.80 to 55.20	
	OUTPUT VOLTAGE SETTING[V]		24.00 to 24.96	48.00 to 49.92	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	I	
	OVERVOLTAGE PROTECTION[V]		28.80 to 34.80	57.00 to 67.20	
	OPERATING INDICATION		LED (Green)		
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)		
	OPERATING TEMP.,HUMID.AND ALTITUDE *4		-20 to +70°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
	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		
SAFETY AND	AGENCY APPROVALS		UL62368-1, C-UL (CSA62368-1), EN62368-1 Complies with DEN-AN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B		
REGULATIONS	HARMONIC ATTENUATOR *5		Complies with IEC61000-3-2 class A		



#### **SPECIFICATIONS**

OTHERS	CASE SIZE/WEIGHT	150×61×240mm [5.91×2.40×9.45 inches] (Excluding terminal block and screw) (W×H×D) / 2.8kg max
	COOLING METHOD	*6 Forced cooling (internal fan)
WARRANTY	WARRANTY	*7 5 years (subject to the operating conditions)

Drift is the change in DC output for an eight hour period after a half-hour

- This is the result of measurement of the testing board with capacitors of 22 µF and 0.1 µF placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103
- warm-up at 25°C.

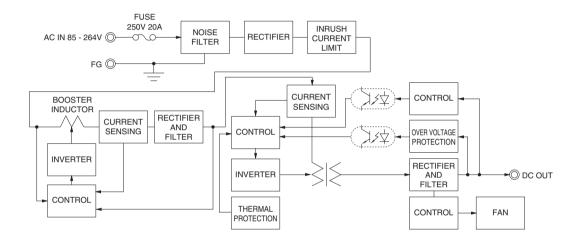
  Output power derating is required. See 3.2 in Instruction Manual.
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.
- Consult us about other classes.
- Parallel operation is not possible with this mode.

- See 1.6 of Instruction Manual for more details. \*2 Consult us about dynamic load and input response.
- The fan speed slows down or stops at no load.
- See 3.3 in Instruction Manual for more details.
- Sound noise may be heard from the power supply when used for pulse load.



- · 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

## **Block diagram**



### **External view**

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

