Ordering information

PJA150F

150









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

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

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

 - ⑤Output voltage

 - ®Optional *7
 C: with Coating
 R: Remote on/off
 - (Required external
 - power source)
 J : Connector interface
 - T : Vertical terminal block N2: with DIN rail

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

* Please consider "PBA150F-5-N" about 5V output with case cover.

	_		* Flease Collsider FBA	,				
	MODEL		PJA150F-12	PJA150F-15	PJA150F-24	PJA150F-36	PJA150F-48	
INPUT	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3					
	ACIN 100V		1.7typ (lo=90%)					
	CURRENT[A]	ACIN 115V	1.6typ (lo=100%)					
		ACIN 230V	0.8typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
		ACIN 100V	84typ (Io=90%)	84typ (lo=90%)	87typ (Io=90%)	87typ (lo=90%)	87typ (lo=90%)	
	EFFICIENCY[%]	ACIN 115V	84typ (Io=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	
		ACIN 230V	87typ (Io=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)		•			
		ACIN 115V	0.98typ (lo=100%)					
		ACIN 230V	0.93typ (Io=100%) * Power factor correction is stopped at AC250V or more.					
		ACIN 100V	16typ (lo=90%) Ta=25°C at cold start					
	INRUSH CURRENT[A]	ACIN 115V	1 16typ (lo=100%) Ta=25°C at cold start					
		ACIN 230V	32typ (lo=100%) Ta=25°C at cold start					
	LEAKAGE CURRENT[mA]		0.75max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)					
	VOLTAGE[V]		12	15	24	36	48	
		ACIN 85-115V	Output derating is requ	ired at ACIN 115V or le	ess (refer to instruction n	nanual 3.2)		
	CURRENT[A]	ACIN 115V-264V		10	6.4	4.2	3.2	
		ACIN 85-115V			ess (refer to instruction n			
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6	
	LINE REGULATION[m		48max	60max	96max	144max	192max	
OUTPUT	LOAD REGULATION	lo=30 to 100%		120max	150max	150max	300max	
	[mV] *4	lo=0 to 30%						
		0 to +40°C	' '	120max	120max	150max	150max	
	RIPPLE[mVp-p] *1 lo: load factor	-10 to 0℃		160max	160max	200max	400max	
		lo=0 to 30%	500max	500max	500max	500max	500max	
	RIPPLE NOISE[mVp-p]	0 to +40℃		150max	150max	200max	200max	
	lo: load factor	-10 to 0°C	180max	180max	180max	240max	500max	
		lo=0 to 30%		600max	600max	600max	600max	
	TEMPERATURE REGULATION[mV]	0 to +40°C		150max	240max	360max	480max	
		-10 to +40°C	180max	180max	290max	440max	600max	
	DRIFT[mV]	*2	48max	60max	96max	144max	192max	
	START-UP TIME[ms]		40flax					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		, ,	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80	
	OUTPUT VOLTAGE SETTING[V]		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92	
	OVERCURRENT PROTECTION		Works over 105% of ra			11.00 10 0	1.0.00 10 10.02	
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20	
	OPERATING INDICATION		LED (Green)		,		1 10 07.120	
	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Optional (Required external power source. Option -R)					
ISOLATION	INPUT-OUTPUT • RC *9							
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
	OUTPUT • RC-FG *9							
			AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)					
	OPERATING TEMP., HUMID. AND ALTITUDE *5		-20 to +70°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max					
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max					
ENVIRONMENT	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					
AFFTY AND	AGENCY APPROVALS					- I) Complies with DEN /	ANI .	
SAFETY AND NOISE	CONDUCTED NOISE		UL60950-1, C-UL (CSA60950-1), EN60950-1, UL508 (Except option -J) Complies with DEN-AN Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
	HARMONIC ATTENUA	ATOR **	Complies with IEC61000-3-2 class A					
	HARIMONIC ATTENUA	AIUR *8	Compiles with IEC6100	UU-3-2 Class A				



SPECIFICATIONS

OTHERS	CASE SIZE/WEIGHT	41 X 97 X 129mm [1.61 X 3.82 X 5.08 inches] (Excluding terminal block and screw) (W X H X D) / 600g max			
	COOLING METHOD	Convection			
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)			

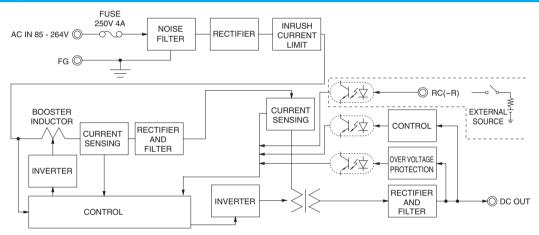
- This is the result of measurement of the testing board with capacitors of 22 U.F. and 0.1 U.F. placed at 150 mm from the output terminals by a 20. MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken
 - See 1.6 of Instruction Manual for more details.
- When the load factor is 0 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications
- Drift is the change in DC output for an eight hour period after a half-
- hour warm-up at 25℃.
- Output power derating is required
- Consult us about dynamic load and input response. Measure the output voltage by using the average mode of the tester to deal with the burst operation at 30% load or less.
- 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.
- Consult us about other classes

- The RC terminal is added to option -R models. The RC terminal is isolated from input, output, and FG.
- 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 not possible with this mode
- Sound noise may be heard from the power supply when used for pulse load.

Features

- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PJA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view

The external size of -R option, -J option, -N2 option and -T option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.

